VILLAGE OF JEFFERSON

JEFFERSON COMMUNITY PARK IMPROVEMENTS ASHTABULA COUNTY, OHIO

Sheet List Table		
Sheet Number	Sheet Title	
1	COVER SHEET	
2	GENERAL NOTES	
3	EXISTING CONDITIONS PLAN	
4	OVERALL LAYOUT PLAN	
5	LAYOUT PLAN PLAYGROUND	
6	LAYOUT PLAN SPLASH PAD	
7	OVERALL GRADING PLAN	
8	PLAYGROUND AND SPLASH PAD GRADING PLAN	
9	STORMWATER POND GRADING PLAN	
10	STORMWATER POLLUTION PREVENTION PLAN	
11	STORMWATER POLLUTION PREVENTION PLAN NOTES	
12	STORMWATER POLLUTION PREVENTION PLAN DETAILS	
13	STORMWATER POLLUTION PREVENTION PLAN LOGS	
14	DETAILS	
15	DETAILS	
16	DETAILS	
17	LSI - PLAYGROUND PLAN	
18-25	RAINDECK - SPLASH PAD PLANS	
26-32	RESTROOM ARCHITECTURAL PLANS	
33-41	RESTROOM MECHANICAL/ELECTRICAL PLANS	

OUPS UTILITY LIST:

- GAS
 - AQUA OHIO, INC. - ENBRIDGE GAS OHIO
- CHARTER COMMUNICATIONS
- 4. SANITARY VILLAGE OF JEFFERSON
 - VILLAGE OF JEFFERSON
- 6. ELECTRIC ILLUMINATING CO 7. OTHER - BRIGHTSPEED COMM



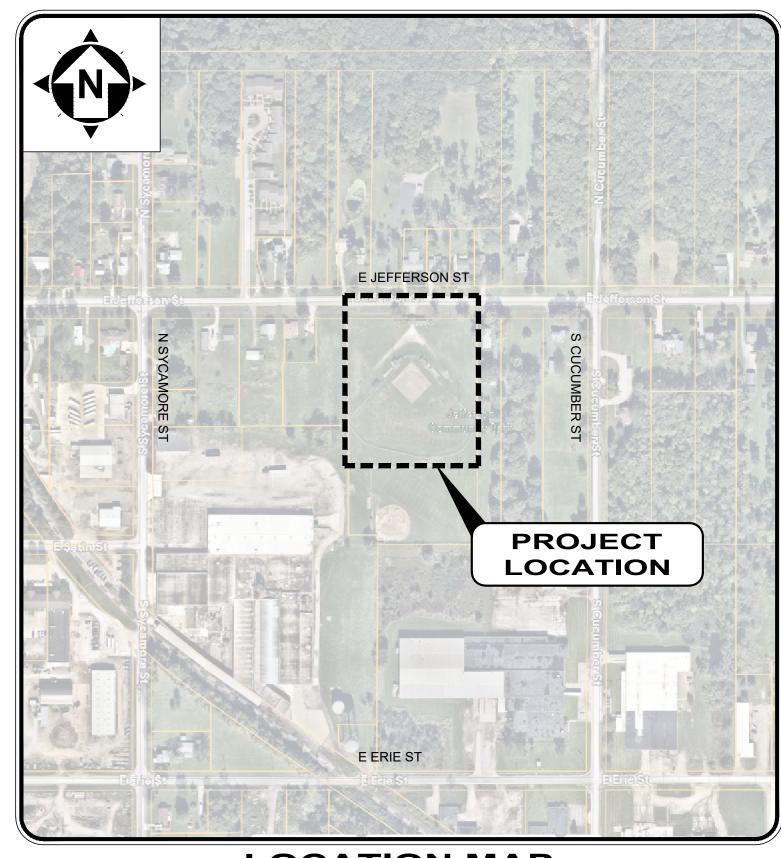
1-800-362-2764 CALL TWO WORKING DAYS BEFORE YOU DIG

OUPS TICKET NUMBERS

A507902886 / A507902906

- 1. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THEIR EFFORTS WITH THE LISTED OUPS ONE CALL UTILITIES AS WELL AS ANY ENCOUNTERED UTILITIES THAT MAY BE UNLISTED.

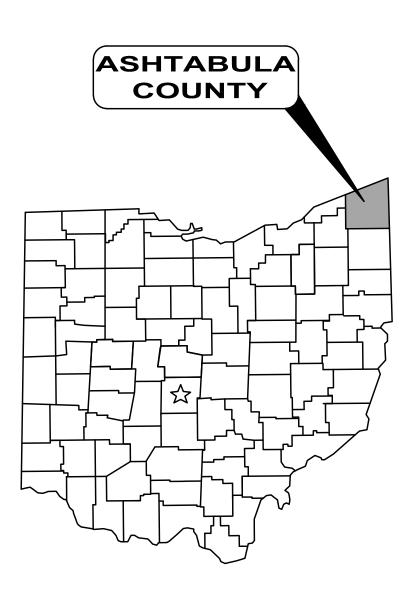
SEPTEMBER 2025

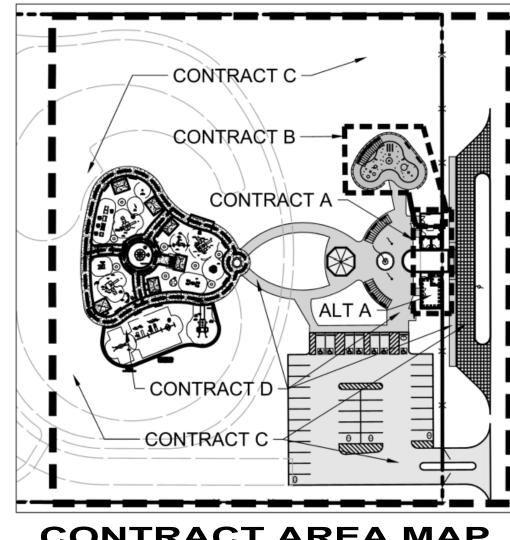


LOCATION MAP NOT TO SCALE

verdantas

ENGINEER'S PROJECT No. 242425





CONTRACT AREA MAP

VILLAGE OF JEFFERSON APPROVALS: VILLAGE ADMINISTRATOR

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES COMMUNITY PARK ENHANCEMENTS, INCLUDING THE RENOVATION OF THE RESTROOM BUILDING, THE ADDITION OF A DROP-OFF AREA, A FRONT PLAZA, THE DEVELOPMENT OF NEW PARKING LOT, A NEW PLAYGROUND AND SPLASH PAD AREA IN THE VILLAGE OF JEFFERSON, ASHTABULA COUNTY, OHIO.

ENGINEER:

VERDANTAS 8150 STERLING COURT MENTOR, OH 44060

(440) 530-2372 PHONE

RICHARD WASHINGTON PL

9-12-25

DATE

PROJECT NO. 242425 DISCIPLINE CIVIL SHEET NAME

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CO

A PRECONSTRUCTION CONFERENCE SCHEDULED BY THE VILLAGE OF JEFFERSON SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE VILLAGE OF JEFFERSON AND PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

THE IMPROVEMENT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF THE VILLAGE OF JEFFERSON, AS WELL AS THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, 2023 EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND DRAWINGS, SHALL GOVERN THIS PROJECT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE JEFFERSON VILLAGE ENGINEER AND/OR HIS REPRESENTATIVE.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE VILLAGE OF JEFFERSON, THE ASHTABULA COUNTY SOIL AND WATER CONSERVATION DISTRICT AND AT ALL TIMES BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

MATERIAL TESTING AND PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT. THE EXECUTED PROJECT CONTRACT SHALL SERVE TO FULFILL THE VILLAGE OF JEFFERSON'S PERMITTING REQUIREMENTS.

THE CONTRACTOR MUST CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 AND THE OHIO OIL AND GAS ASSOCIATION (OGPUPS) AT 1-800-925-0988 AT LEAST 48 HOURS, BUT NO MORE THAN 10 WORKING DAYS, BEFORE BEGINNING ANY DIGGING, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WRITTEN REQUIREMENTS OF OUPS AND OGPUPS. THE CONTRACTOR SHALL COORDINATE THE MARKING AND/OR LOCATING TO STAY A MINIMUM OF TWO WORKING DAYS AHEAD OF PLANNED CONSTRUCTION ACTIVITIES.

THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

OHIO UTILITY PROTECTION SERVICE 106 WEST RYEN, ROOM 427 YOUNGSTOWN, OHIO 44051 PHONE: (800) 362-2746

AQUA OHIO INC.

BILL BOWERS, MANAGER

PHONE: (440) 255-7280 EXT 50611

320 SPRINGSIDE DRIVE, SUITE 320

EMAIL: WMBOWERS@AQUAAMERICA.COM

8644 STATION STREET

MENTOR, OHIO 44060

ENBRIDGE GAS OHIO

AKRON, OHIO 44333

PHONE: (330) 664-2409

STREETS DEPARTMENT WILLIAM HITCHCOCK - DEPT SUPERVISOR 221 N MARKET ST. JEFFERSON, OHIO 44047 PHONE: (440) 812-2384

VILLAGE OF JEFFERSON

BRIGHTSPEED COMMUNICATIONS DAVID RUMMEL 7820 DIVISION DRIVE MENTOR, OHIO 44060 PHONE: (330)-219-2773

EMAIL: DAVID.B.RUMMEL@BRIGHTSPEED.COM

PHONE: (440)358-4993 EMAIL: ASTITT@FIRSTENERGYCORP.COM

CHARTER COMMUNICATION

ASHTABULA, OHIO 44004

THE ILLUMINATING CO.

PAINESVILLE, OHIO 44077

ARTHER STITT

755 AUBURN RD.

3315 N RIDGE RD. E, SUITE 100

EMAIL: JASON.SPRAGUE@CHARTER.COM

JASON SPRAGUE

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS, EXCLUDING SATURDAY, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

CONTRACTORS RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES

AT POINTS WHERE THE CONTRACTOR'S OPERATIONS ARE ADJACENT TO PROPERTIES OF TELEPHONE, CABLE, AND POWER COMPANIES, OR ARE ADJACENT TO OTHER PROPERTY, DAMAGE TO WHICH MIGHT RESULT IN CONSIDERABLE EXPENSE, LOSS, OR INCONVENIENCE, WORK SHALL NOT BE COMMENCED UNTIL ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION THEREOF HAVE BEEN MADE.

THE CONTRACTOR SHALL COOPERATE WITH THE OWNERS OF ANY UNDERGROUND OR OVERHEAD UTILITY LINES IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS MAY PROGRESS IN A REASONABLE MANNER, THAT DUPLICATION OF REARRANGEMENT WORK MAY BE REDUCED TO A MINIMUM, AND THAT SERVICES RENDERED BY THOSE PARTIES WILL NOT BE UNNECESSARILY INTERRUPTED.

PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY AND/OR PERSONS DURING THE PROSECUTION OF THE WORK. RESULTING FROM ANY ACT. OMISSION, NEGLECT OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.

DUST NUISANCE ORIGINATING FROM ANY OF THE CONTRACTOR'S OPERATIONS EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL ORDINANCES AND REGULATIONS AT THE SOLE EXPENSE OF THE CONTRACTOR.

WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLECT OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NONEXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE. AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE

SUBSURFACE INVESTIGATIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. SUBSURFACE SOIL INVESTIGATIONS WERE NOT PERFORMED FOR THIS PROJECT.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING PIPE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE. BOTH AS TO LINE AND GRADE. AND ADJUST LINE AND/OR GRADE AS NECESSARY BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEM.

THE ENBRIDGE GAS OHIO NATURAL GAS COMPANY SHALL BE RESPONSIBLE FOR ALL RELOCATIONS OF THEIR GAS MAIN FACILITIES AS REQUIRED, INCLUDING HOUSE CONNECTIONS AND VALVE BOX RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VALVE BOX AND ALL OTHER GAS MAIN APPURTANCE ADJUSTMENTS TO GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ENBRIDGE GAS OHIO SO THAT COMPLETION OF HIS WORK IS NOT DELAYED BY THE ENBRIDGE GAS OHIO WORK. THE CONTRACTOR SHALL NOTIFY ENBRIDGE GAS OHIO AT LEAST 48 HOURS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THEIR SYSTEM.

DRIVEWAY AND ROADWAY PAVEMENT INSTALLATION

ALL PAVEMENT INSTALLATION SHOULD BE CONDUCTED UNDER SUITABLE WEATHER CONDITIONS. THE ENGINEER SHALL BE NOTIFIED IN ADVANCE OF ANY PROPOSED PAVEMENT INSTALLATION TO DETERMINE THE SUITABILITY OF WEATHER CONDITIONS FOR PAVEMENT INSTALLATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ROADWAYS AND DRIVES PRIOR TO FINAL INSTALLATION. THE COST OF ANY TEMPORARY SURFACE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEM OF WORK.

THE CONTRACTOR SHALL PROVIDE ABOVE GROUND VIDEOTAPING OF ALL WORK AREAS PRIOR TO THE BEGINNING OF THE WORK. THE CONTRACTOR SHALL NOT START WORK UNTIL SUCH TIME AS THE ENGINEER HAS BEEN PROVIDED A COPY OF THE COMPLETE VIDEO.

<u>DEWATERING</u>

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ANY INCOMING WATER TO THE EXTENT THAT THE SHAFT EXCAVATION IS MAINTAINED DRY ENOUGH FOR PERFORMANCE OF THE REQUIRED INSPECTION AND CONCRETING OPERATIONS. THE PREFERRED METHOD OF CONSTRUCTION IS TO PLACE THE CONCRETE IN A CLEAN, DRY EXCAVATION. THE CONTRACTOR IS EXPECTED TO MAKE A REASONABLE ATTEMPT TO SEAL WATER OUT OF THE DRILLED SHAFT EXCAVATION.

DEVIATION FROM PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS INVOLVED WHEN MAKING CORRECTIONS TO HIS UNAUTHORIZED DEVIATIONS FROM THE PLANS.

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE APPROVING AGENCIES AND THE ENGINEER.

THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAR FOOT OF PIPE.

SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.

STORM SEWER PIPING LESS THAN 12" IN DIAMETER SHALL BE PVC SDR 35 PER ODOT 707.45.

STORM SEWER PIPING 12" TO 36" IN DIAMETER SHALL BE HDPE PIPE WITH FITTINGS CONFORMING TO O.D.O.T. SPECIFICATION 707.33 (HDPE).

A-LOK FIELD INSERTED SEALS SHALL BE USED AND GROUTED IN (NON-SHRINK) WHERE STRUCTURES AND FABRICATION ISSUES EXIST DO TO PIPE LOCATIONS AND ANGLES.

INSERTA TEE SHALL BE USED TO MAKE INLINE CONNECTIONS FOR THE 4 INCH & 6 INCH TIE-INS WHERE ENCOUNTERED.

ALL WATER LINE MATERIALS SHALL BE IN ACCORDANCE WITH ASHTABULA COUNTY DEPARTMENT OF UTILITIES.

APPROVAL BEFORE CONCRETE PLACEMENT

THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER A WRITTEN REPORT OF STEPS AND PROCEDURES THAT HE PROPOSES TO FOLLOW WHEN PLACING AND MONITORING THE CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED DURING INCLEMENT. WEATHER CONDITIONS WHICH PROHIBIT A THOROUGH INSPECTION.

<u>REINFORCING STEEL</u>

REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ITEM 509. THE REINFORCING STEEL SHALL BE GRADE 60, EPOXY COATED ASTM A615. SEE DETAILS FOR REINFORCING REQUIREMENTS.

SITE RESTORATION

THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.

PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.

ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION, AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.

SAFETY PROVISIONS

THE CONTRACTOR SHALL HAVE AT THE JOB SITE ALL EQUIPMENT AND MATERIALS NEEDED TO PROVIDE SAFE CONSTRUCTION AND INSPECTION OF THE DRILLED SHAFTS AS REQUIRED BY CITY, STATE AND FEDERAL SAFETY REQUIREMENTS. WHERE UTILITY OUPS MARKINGS SHOW POTENTIAL CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE A NEED TO ADJUST THE LOCATION. THE CONTRACTOR SHOULD EXPECT TO POT-HOLE LOCATIONS WHICH APPEAR TO HAVE OUPS MARKINGS ADJACENT TO PROPOSED POLE LOCATIONS IN ORDER TO DETERMINE CLEARANCES. PAYMENT SHOULD BE INCLUDED IN THE LIGHT POLE FOUNDATION BID ITEM.

DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL

POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 670 AND AS REQUIRED BY THE LOCAL COUNTY SOIL AND WATER CONSERVATION

THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE CITY. TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.

THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION INSTALL & MAINTAIN THE FOLLOWING TEMPORARY EROSION & SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION:

- SILT SOCKS AROUND PERIMETER OF DISTURBED AREAS AND STOCK PILES.
- CONCRETE WASHOUT PIT
- DAILY SWEEPING CONSTRUCTION ENTRANCE (IF NON PAVED AREAS ARE USED)
- TEMPORARY & PERMANENT SEEDING.

PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL

- 1. POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 670 AND AS
- REQUIRED BY THE LOCAL COUNTY SOIL AND WATER CONSERVATION DISTRICT. 3. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE CITY, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE
- CONSTRUCTION. 4. THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION INSTALL & MAINTAIN THE FOLLOWING TEMPORARY EROSION & SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION:
 - -INLET PROTECTION
 - -SILT SOCKS AROUND PERIMETER OF DISTURBED AREAS AND STOCK PILES.
 - -CONCRETE WASHOUT PIT
 - -CONSTRUCTION ENTRANCE (IF NON PAVED AREAS ARE USED)
 - -TEMPORARY & PERMANENT SEEDING.
- 5. PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

MAINTENANCE OF TRAFFIC

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL SIGNS, FLAGS, FLAG PERSONS, BARRICADES, SIGN SUPPORTS, CONES, BARRELS AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISED EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH TRAFFIC SHALL BE KEPT MINIMAL AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS AT ALL TIMES.

LAYOUT NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT STAKING INCLUDING HORIZONTAL AND VERTICAL CONTROL. THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC LAYOUT STAKING. ANY DISCREPANCIES DISCOVERED IN THE PLAN INFORMATION, OR BETWEEN THE PLAN AND ELECTRONIC DATA, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER SO THE APPROPRIATE ADJUSTMENTS MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME. THE DESIGN ENGINEER MAKES NO REPRESENTATION REGARDING FITNESS FOR ANY PARTICULAR PURPOSE, OR SUITABILITY FOR USE WITH ANY SOFTWARE OR HARDWARE. DUE TO THE EASILY ALTERABLE NATURE OF ELECTRONIC DOCUMENTS, THROUGH EITHER UNINTENTIONAL OR INTENTIONAL MEANS, THE DESIGN ENGINEER DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND THEREFORE, ACCEPTS NO LIABILITY FOR THE COMPLETENESS, CORRECTNESS OR READABILITY OF THE ELECTRONIC DATA. HARD COPIES (I.E., PRINTS, PAPER COPIES, ETC.) SHALL PREVAIL IN ANY DISPUTE OVER ACCURACY OR SUFFICIENCY OF ELECTRONIC DOCUMENTS.

EXISTING CONDITION AND DEMOLITION NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM
- 3. CLEARING AND GRUBBING SHALL BE PERFORMED WHERE EARTHWORK IS REQUIRED. THIS WORK SHALL INCLUDE CLEARING, GRUBBING, SCALPING, TREE AND STUMP REMOVAL, AND THE REMOVAL AND DISPOSAL OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS OF WORK.
- THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIAL, DEMOLISHED MATERIALS AND WASTE MATERIALS INCLUDING TREES, STUMPS, BRUSH, TRASH AND DEBRIS, FROM THE PROJECT LIMITS AND LEGALLY DISPOSE OF OFF-SITE.
- PAVEMENT TO BE REMOVED SHALL BE SAWCUT IN A NEAT AND STRAIGHT LINE PRIOR TO EXCAVATION AND REMOVED FULL DEPTH AT LIMITS OR EXISTING JOINTS AS SHOWN IN THE PLANS. ADDITIONAL SAWCUTS MAY BE DESIRED TO FACILITATE THE REMOVAL OF THE EXISTING PAVEMENT, BUT THERE WILL BE NO EXTRA PAYMENT. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAWCUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.
- ANY ITEM NOT MARKED TO BE REMOVED SHALL REMAIN IN PLACE UNDISTURBED AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- NO ATTEMPT HAS BEEN MADE TO NOTE ALL LOCATIONS OR SPECIFIC EXTENT OF DEMOLITION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DEMOLITION NECESSARY TO EXECUTE THE NEW PLAN INCLUDING COORDINATION OF DEMOLITION WORK WITH NEW WORK SO AS NOT TO CREATE CONFLICTS OF NEW
- ALL DEMOLISHED ITEMS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.

SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

- ANY UTILITY TO BE REMOVED, RELOCATED, SHUT-OFF, AND/OR RECONNECTED BY THE RESPECTIVE UTILITY COMPANY SHALL BE COORDINATED BY THE CONTRACTOR.
- 10. ALL EXCAVATIONS RESULTING FROM UTILITY REMOVALS SHALL BE BACKFILLED WITH PREMIUM GRANULAR MATERIAL MEETING ODOT ITEM 304 TO WITHIN 8" OF SURFACE. TOP WITH TOPSOIL IN LAWN AREAS.

GRADING NOTES:

- 1. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. THE OWNER NOR THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE BIDDER SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE OR ESTIMATE TO THEIR SATISFACTION ANY EXISTING SITE CONDITION WHICH COULD AFFECT HIS BID OR THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE. BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, OBSTRUCTIONS, ETC.
- THE CONTRACTOR SHALL PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES TO REMAIN FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING OPERATIONS.
- THE INTENT OF THIS PROJECT IS TO UTILIZE ALL USEABLE MATERIALS EFFICIENTLY. ACTUAL FIELD CONDITIONS MAY REQUIRE DECISIONS ON MATERIAL HANDLING AND USAGE. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AND MAINTAINING SITE CONDITIONS.
- 4. THE CONTRACTOR SHALL STRIP TOPSOIL FROM AREAS TO BE GRADED AND STOCKPILE IT PRIOR TO SITE GRADING OPERATIONS. TOPSOIL SHALL BE STRIPPED TO WHATEVER DEPTH ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- DO NOT STOCKPILE SOIL MATERIALS NEAR THE EDGE OF EXCAVATIONS OR WITHIN DRIP LINES OF TREES TO REMAIN.
- EXCESS MATERIAL GENERATED FROM TRENCH EXCAVATION OPERATIONS SHALL BE INCORPORATED IN THE UNIT PRICE BID FOR EXCAVATION INCLUDING EMBANKMENT
- THE CONTRACTOR SHALL PERFORM EXCAVATION AND EMBANKMENT OPERATIONS AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS AND ACHIEVE THE FINISHED GRADES SHOWN ON THE PLANS, EXCEPT AS NOTED:
 - a. STRUCTURAL FILL SHALL BE PLACED AND COMPACTED UNDER ALL BUILDING SLABS, FOOTINGS AND PAVEMENT.
 - SOIL OBTAINED ON-SITE MAY BE USED AS FILL MATERIAL PROVIDED IT IS FREE OF ORGANIC MATTER, DEBRIS, EXCESSIVE MOISTURE, AND ROCK FRAGMENTS 6" AND
 - c. NO SLAG, RIVER GRAVEL, RECYCLED PORTLAND CEMENT CONCRETE, RECLAIMED ASPHALT CONCRETE PAVEMENT OR RECLAIMED BITUMINOUS AGGREGATE BASE MAY BE USED.
 - d. THE CONTRACTOR SHALL DISPOSE OFF-SITE ANY EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON-SITE.
 - e. UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF PROPOSED IMPROVEMENTS (I.E. BUILDINGS, UTILITIES, PAVEMENT, ETC.) SHALL BE UNDERCUT AND REPLACED WITH COMPACTED FILL OR STABILIZED IN-PLACE UTILIZING CONVENTIONAL MEASURES SUCH AS DISCING, AERATION OR RECOMPACTION. OTHER MEANS OF STABILIZATION SHALL BE AT THE DISCRETION OF THE OWNER OR GEOTECHNICAL ENGINEER.
- IT IS THE INTENT OF THE SLOPES AND SPOT GRADES NOTED ON THE PLANS TO PROVIDE POSITIVE DRAINAGE TO STORM WATER COLLECTION POINTS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION.
- 9. EXPOSED PAVEMENT SUBGRADE AREAS SHALL BE MAINTAINED IN SUCH CONDITION THAT IT WILL BE WELL DRAINED AT ALL TIMES TO PREVENT PONDING OF WATER AFTER 10. ALL EXISTING AND PROPOSED MANHOLE COVERS, VALVE BOXES, ETC., LOCATED WITHIN PEDESTRIAN RIGHT-OF-WAYS OR SIDEWALKS SHALL BE FLUSH MOUNTED WITH
- 11. THE CONTRACTOR SHALL RECONSTRUCT ANY SUBGRADE DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER OR CONSTRUCTION ACTIVITIES WITHOUT ADDITIONAL COMPENSATION.

UTILITY NOTES:

THE WALKING SURFACE.

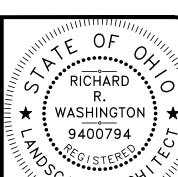
- THE CONTRACTOR SHALL PROTECT, SUPPORT AND SHORE UP ANY EXISTING UTILITY ENCOUNTERED DURING CONSTRUCTION AND COORDINATE ALL WORK TO BE PERFORMED WITH EACH RESPECTIVE UTILITY COMPANY, INCLUDING WORK BEING PERFORMED DIRECTLY BY THE UTILITY COMPANIES, FOR MAIN OR SERVICE CONNECTIONS, DISCONNECTIONS, RELOCATIONS, DEMOLITION AND INSPECTIONS. THE CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS, FEES AND UTILITY
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER ACTIVE, COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON. THIS INCLUDES TRENCH PROTECTION SUCH AS TRENCH BOXES, WOOD SHEETING AND BRACING, OR ANY OTHER METHOD DETERMINED BY THE CONTRACTOR TO MAINTAIN A SAFE WORKING ENVIRONMENT. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS (FEDERAL, STATE AND LOCAL).
- WHERE THE PLANS PROVIDE FOR NEW CONDUIT TO BE CONNECTED TO OR CROSS OVER OR UNDER AN EXISTING UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY BOTH AS TO LINE AND GRADE BEFORE BEGINNING TO LAY THE NEW CONDUIT.
- THE CONTRACTOR SHALL JET-CLEAN ALL STORM SEWERS AND VACUUM CLEAN ALL MANHOLES AND CATCH BASINS BEFORE ACCEPTANCE BY THE OWNER.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAR FOOT OF
- SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.

STORM MAIN SEWERS SHALL BE ONE OF THE FOLLOWING:

- a. POLYVINYL CHLORIDE PIPE (PVC) 4" 15" DIAMETER
- ALL POLYVINYL CHLORIDE PIPE IN THIS SIZE RANGE SHALL CONFORM TO ASTM D-3034 SDR 35, SHALL BE INTEGRAL BELL AND SPIGOT TYPE, WITH JOINTS CONFORMING TO ASTM D-3212 AND ELASTOMERIC SEALS CONFORMING TO ASTM F-477.
- ALL PIPE AND FITTINGS SHALL BE MARKED OR STENCILED IN CONFORMANCE WITH ASTM D-3034. ALL GASKETS SHALL BE MARKED OR STENCILED WITH THE ASTM SPECIFICATION DESIGNATION, NAME OR TRADEMARK OF THE MANUFACTURER, AND PIPE SIZE.
- POLYVINYL CHLORIDE PIPE (PVC) 18" 27" DIAMETER
- ALL LARGE DIAMETER POLYVINYL CHLORIDE PIPE SHALL CONFORM TO ASTM F-679, SHALL BE INTEGRAL BELL AND SPIGOT TYPE, WITH JOINTS CONFORMING TO ASTM D-3212 AND ELASTOMERIC SEALS CONFORMING TO ASTM F-477.
- ALL PIPE AND FITTINGS SHALL BE MARKED OR STENCILED IN CONFORMANCE WITH ASTM F-679. ALL GASKETS SHALL BE MARKED OR STENCILED WITH THE ASTM SPECIFICATION DESIGNATION, NAME OR TRADEMARK OF THE MANUFACTURER, AND PIPE SIZE.
- ALL CORRUGATED POLYETHYLENE PIPE IN THIS SIZE RANGE SHALL BE SMOOTH LINED CONFORMING TO ODOT 707.33. ALL PIPE AND FITTINGS SHALL BE MARKED OR

CORRUGATED POLYETHYLENE PIPE 12" DIAMETER AND LARGER

- STENCILED WITH THE APPROPRIATE CLASSIFICATION.
- d. HIGH-DENSITY POLYETHYLENE PERFORATED PIPE 8"-15" DIAMETER
- ALL PERFORATED HDPE PIPE SHALL ONLY BE USED FOR SYNTHETIC TURF FIELD SUBDRAINAGE SYSTEM, NOT FOR ANY OTHER STORM IMPROVEMENTS.
- 9) ALL STORM SEWER JOINTS AND PIPES SHALL BE WATERTIGHT.

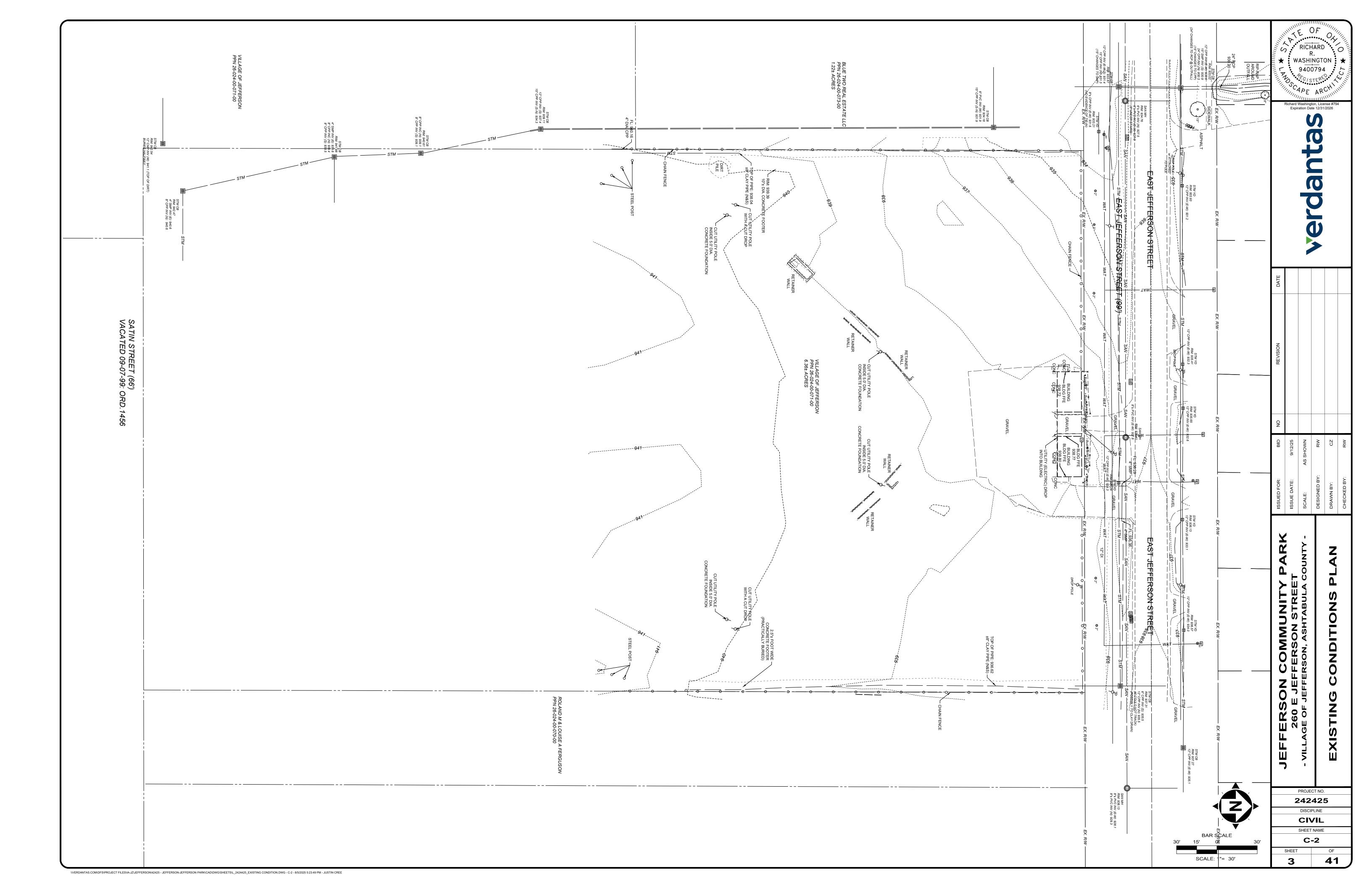


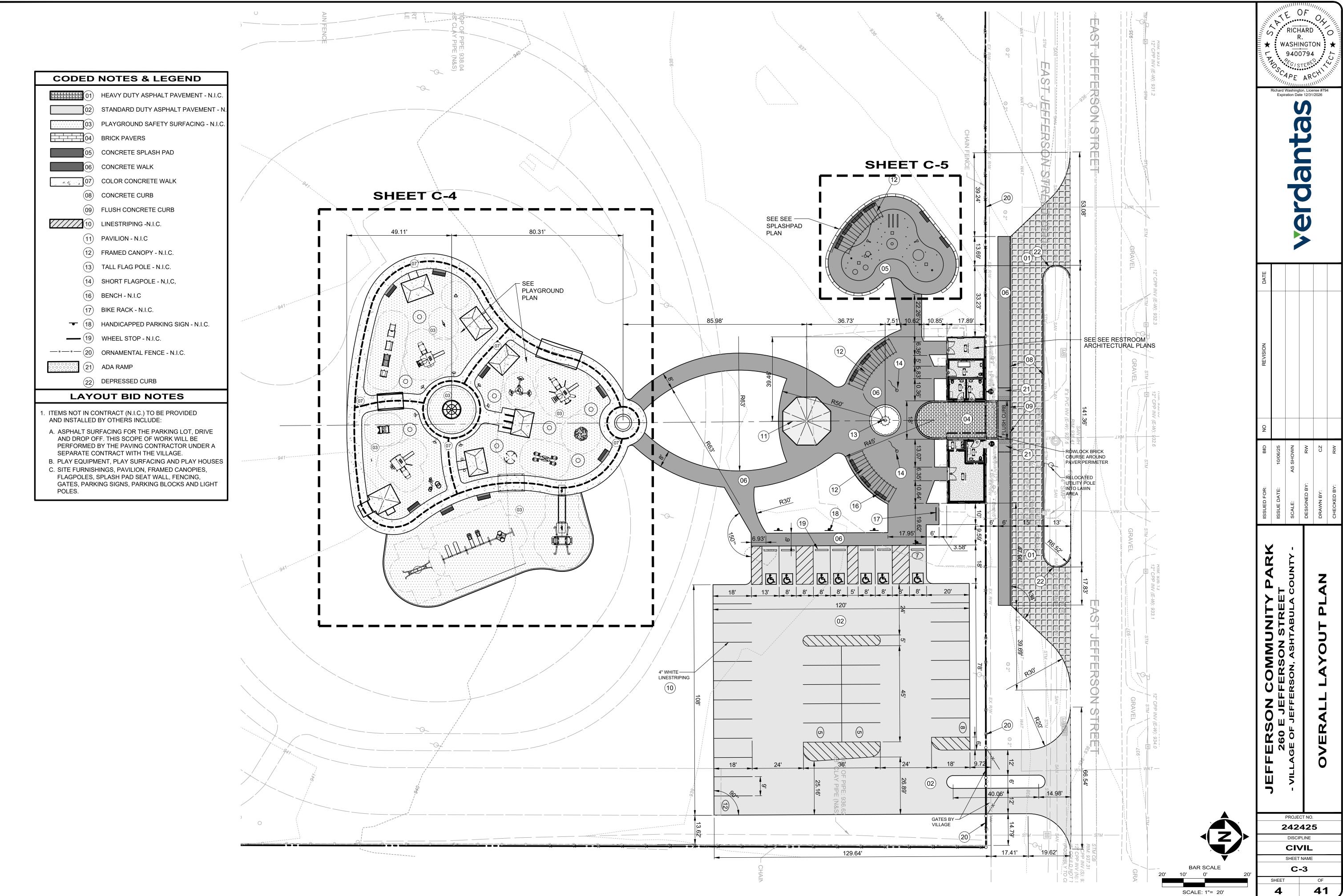
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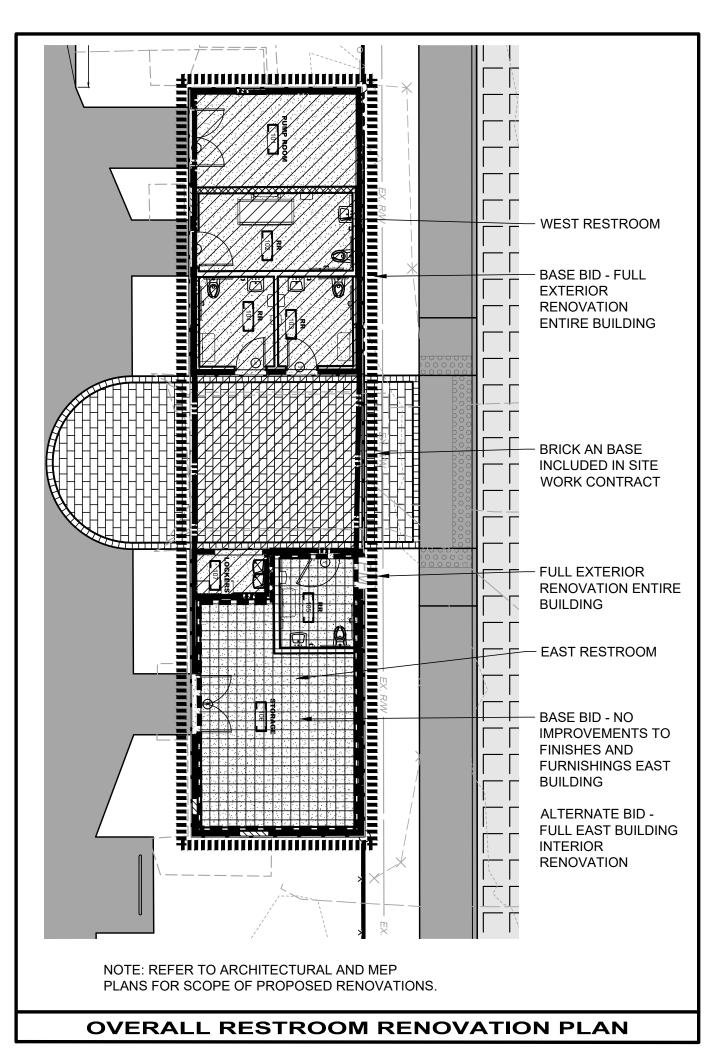
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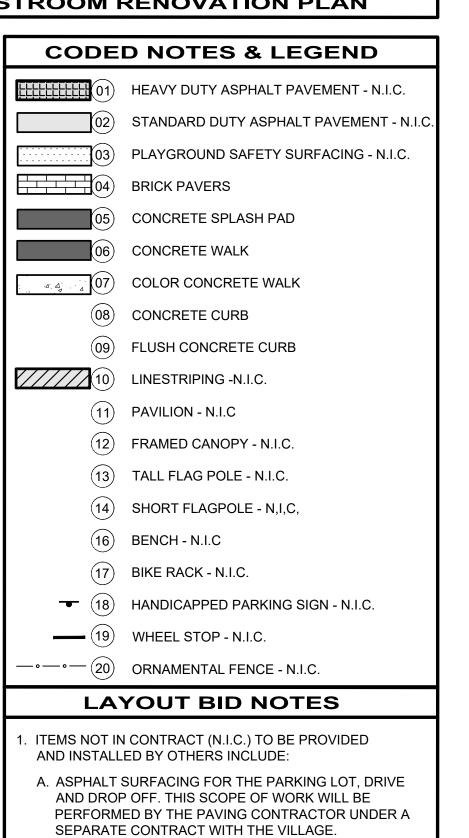
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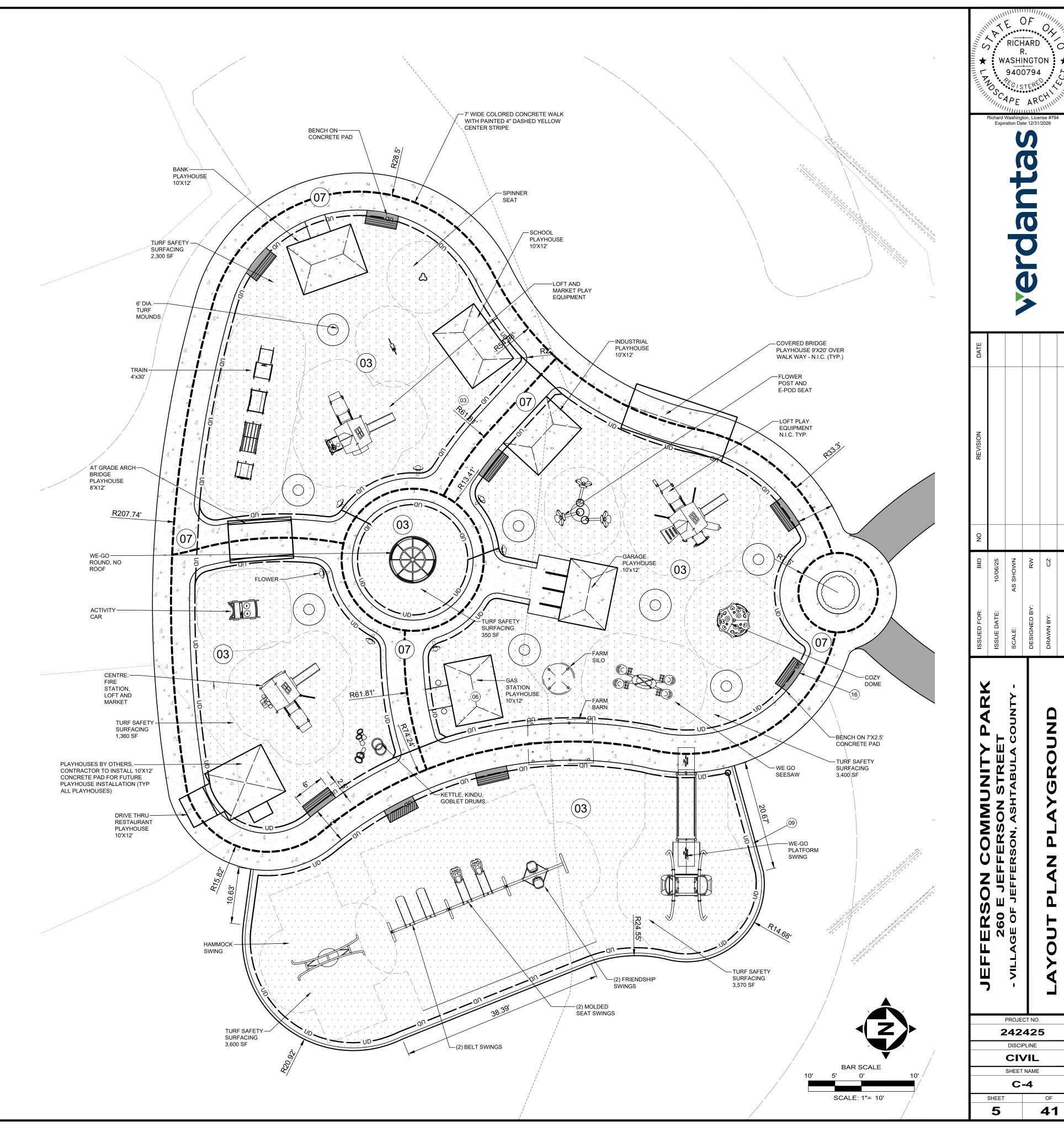


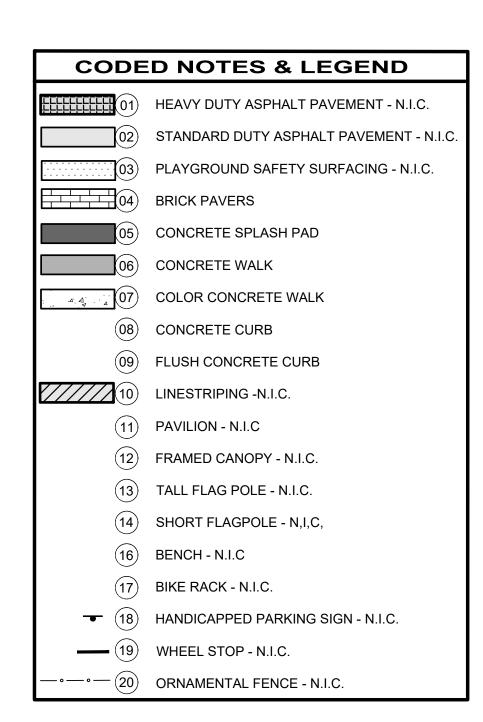
B. PLAY EQUIPMENT, PLAY SURFACING AND PLAY HOUSESC. SITE FURNISHINGS, PAVILION, FRAMED CANOPIES,

GATES, PARKING SIGNS, PARKING BLOCKS AND LIGHT

FLAGPOLES, SPLASH PAD SEAT WALL, FENCING,

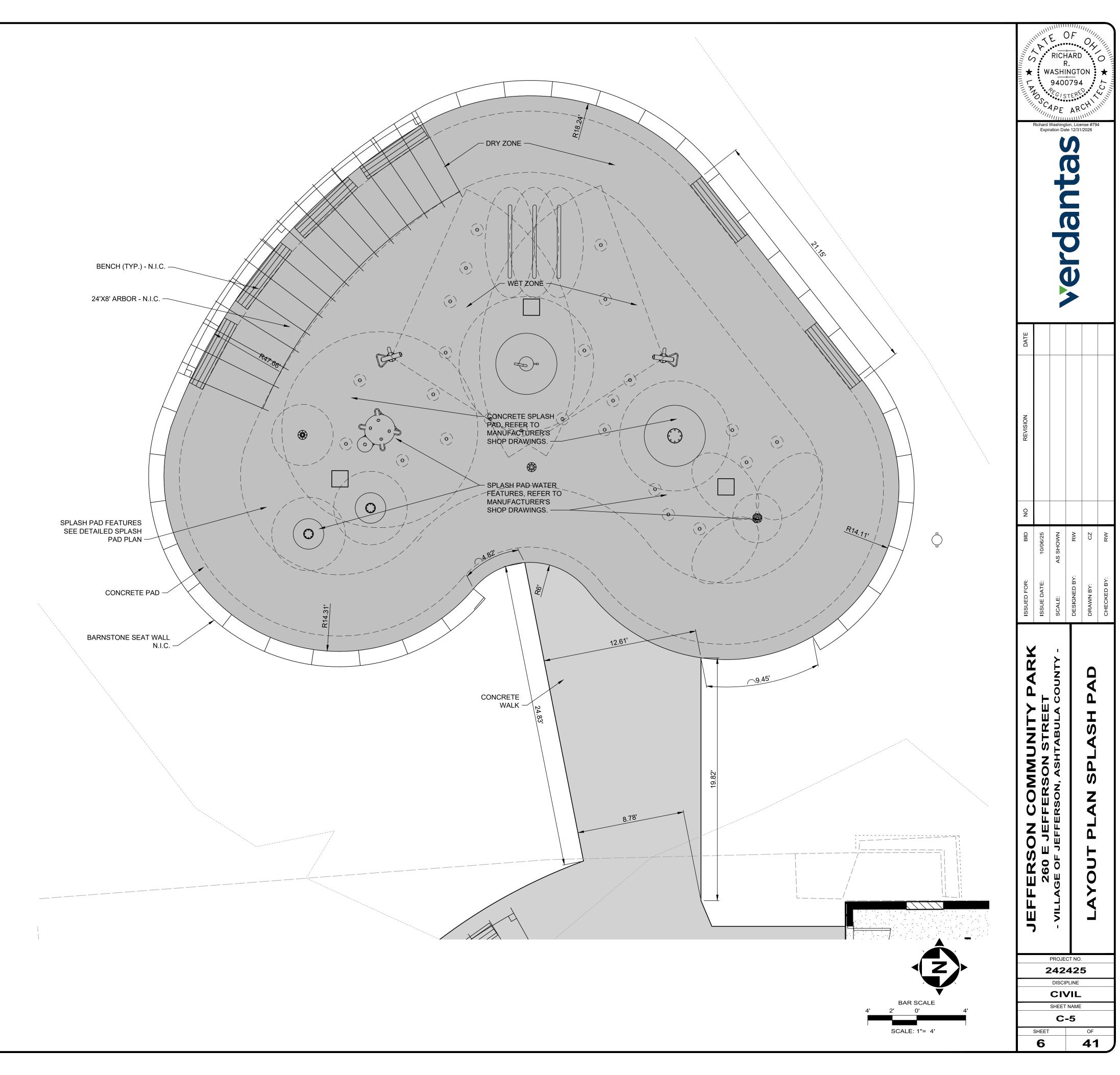
POLES.

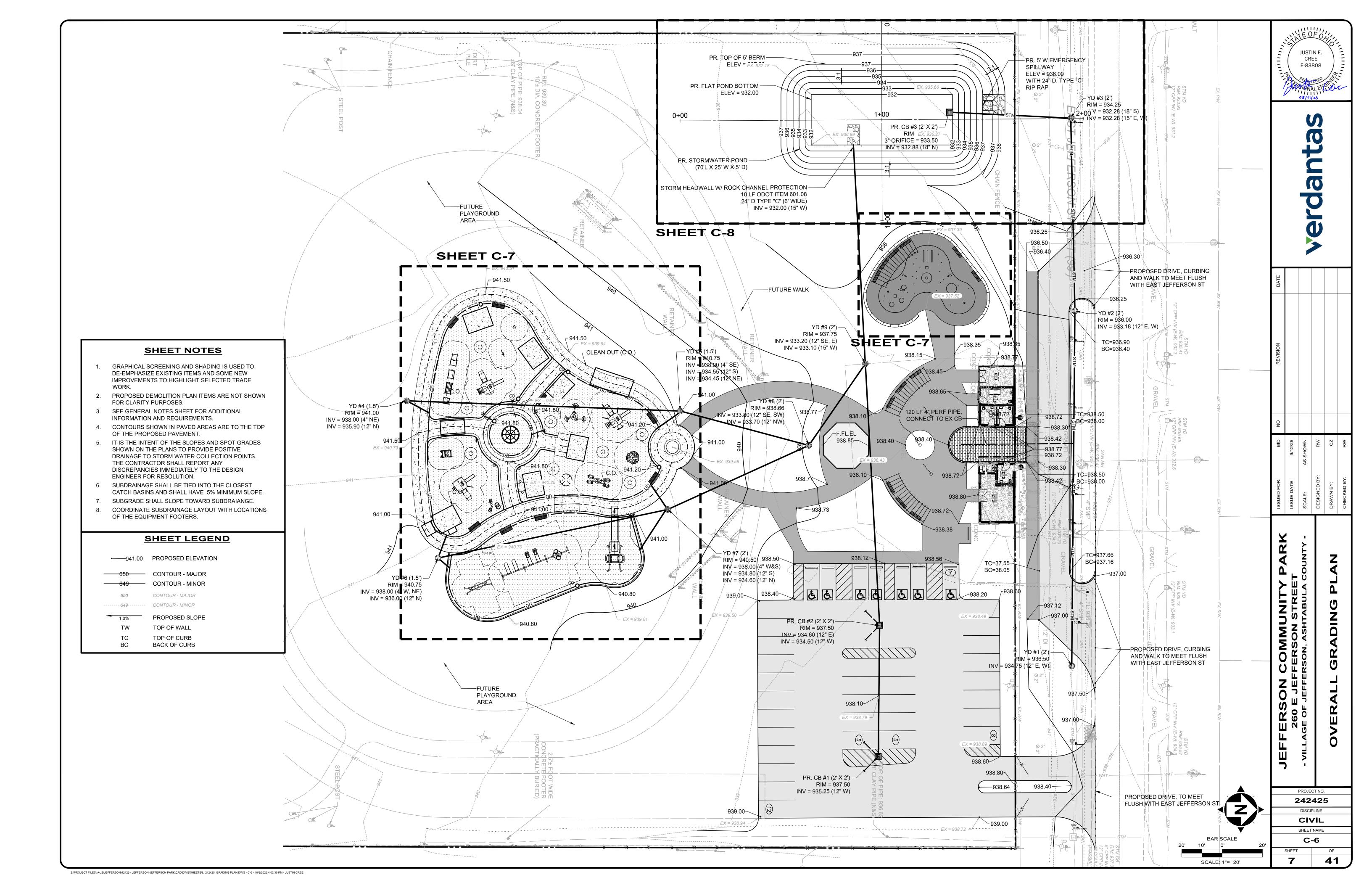


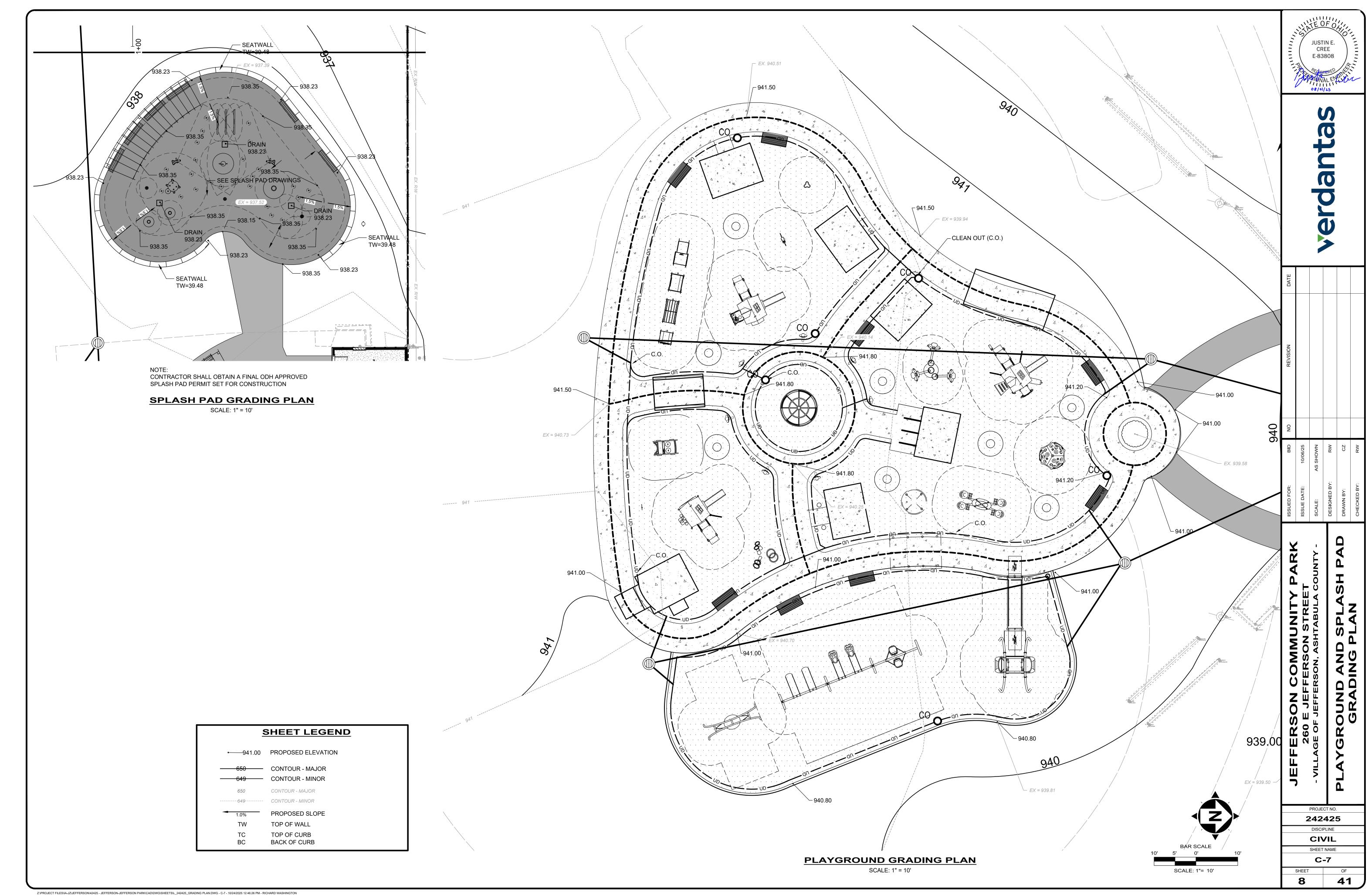


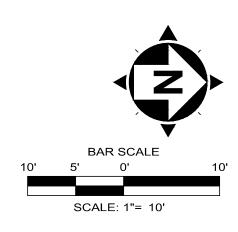
SPLASH PAD NOTES

THE CONTRACTOR SHALL OBTAIN THE MOST CURRENT APPROVED DRAWINGS FROM THE SPLASH PAD COMPANY FOR THE SUBMITTALS.









STORMWATER NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN, AND KEEP CLEAR OF DEBRIS, THE FLOW IN EXISTING STORM SEWERS DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CLEAN ALL NEW STORM SEWERS AND VACUUM CLEAN ALL MANHOLES AND CATCH BASINS WITHIN THE PROJECT LIMITS BEFORE ACCEPTANCE.
- 3. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT THE PROPOSED STORMWATER POND AREA REMAINS UNDISTURBED TO AVOID SOIL OVERCOMPACTION.
- 4. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- . ALL STORM SEWER JOINTS SHALL BE WATERTIGHT.
- 6. POST STORMWATER INSTALLATION THE POND SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPROVED O&M GUIDELINES.

STORMWATER OPERATION & MAINTENANCE NOTES

LONG-TERM OPERATION AND MAINTENANCE SCHEDULE

OWNERSHIP, OPERATION, INSPECTION, AND MAINTENANCE OF THE NON-STRUCTURAL AND STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) CONTAINED IN THIS PLAN SHALL BE PERFORMED BY THE OWNER OR A CERTIFIED REPRESENTATIVE.

REFERENCE IS MADE TO THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL AND THE MUNICIPAL STORMWATER MANAGEMENT ORDINANCE. ALL PARTIES RESPONSIBLE FOR OWNERSHIP, OPERATION, AND MAINTENANCE SHALL OBTAIN COPIES OF THESE REFERENCES AND REVIEW THEM IN DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ITEMS LISTED IN THIS PLAN SHALL BE CONSIDERED THE MINIMUM OPERATIONS AND MAINTENANCE PROCEDURES AND HAVE BEEN PROVIDED TO ASSIST THE RESPONSIBLE PARTY'S CREATION OF A COMPREHENSIVE LIST OF ALL OPERATION AND MAINTENANCE ITEMS THAT MUST BE PERFORMED TO MEET THEIR OBLIGATION OF ENSURING THAT ALL NON-STRUCTURAL BMP'S, STRUCTURAL BMP'S, STORMWATER CONVEYANCE FACILITIES, AND STORMWATER MANAGEMENT AREAS ARE OPERATED AND MAINTAINED IN A SAFE AND GOOD WORKING ORDER.

STORM SEWER COLLECTION / CONVEYANCE SYSTEM

AT A MINIMUM, INSPECTIONS SHOULD BE PERFORMED IN THE SPRING AND FALL OF EACH YEAR AND AFTER EVERY HEAVY STORM EVENT (EVENTS GREATER THAN 1" RAINFALL/ 24 HOURS).

ALL MATERIALS (DEBRIS, SILT, LITTER, ETC.) COLLECTED AND REMOVED AS A PART OF THESE INSPECTIONS SHALL BE DISPOSED OF OFF-SITE IN A PROPER MANNER.

INSPECT THE CONDITION OF STORM INLETS, GRATES, PIPING, ETC. TO ENSURE THEY ARE IN GOOD WORKING ORDER AND PERFORMING THEIR INTENDED PURPOSE. REPAIR DEFICIENT ITEMS AS REQUIRED.

AREAS DRAINING TO STORM SEWER SHALL BE KEPT FREE OF ALL TRASH AND OTHER DEBRIS THAT POSE THE POTENTIAL FOR CLOGGING OF THE SYSTEM

REMOVE ACCUMULATED MATERIALS DEPOSITED IN STORM INLET SUMPS.

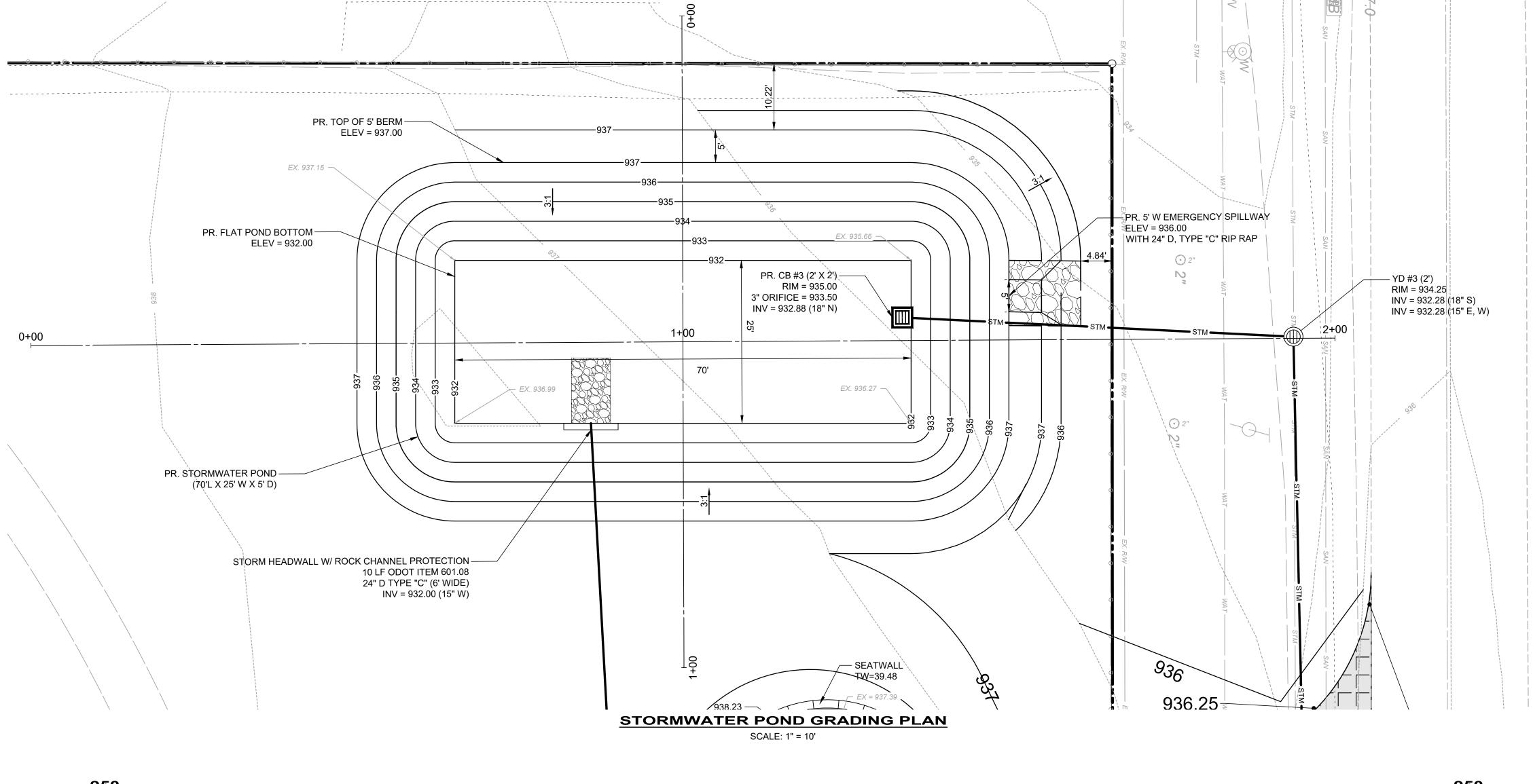
INSPECT THE CONDITION OF ALL SWALES TO ENSURE THEY ARE IN GOOD WORKING ORDER AND PERFORMING THEIR INTENDED PURPOSE.

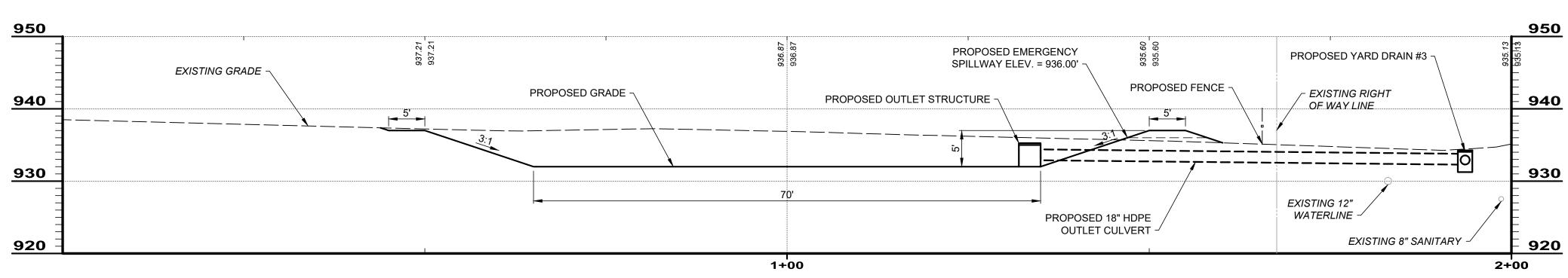
ALL SWALES SHALL BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES AND WOODY DEBRIS, ACCUMULATED SEDIMENT, AND OTHER MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH.

RIPRAP APRON, ENERGY DISSIPATORS, AND DOWNSPOUT DISCHARGES SHALL BE KEPT FREE OF ALL TRASH AND OTHER DEBRIS. WASHED OUT OR DISPLACED ROCK RIPRAP SHALL BE REPLACED AND GROUTED IN PLACE AS NEEDED.

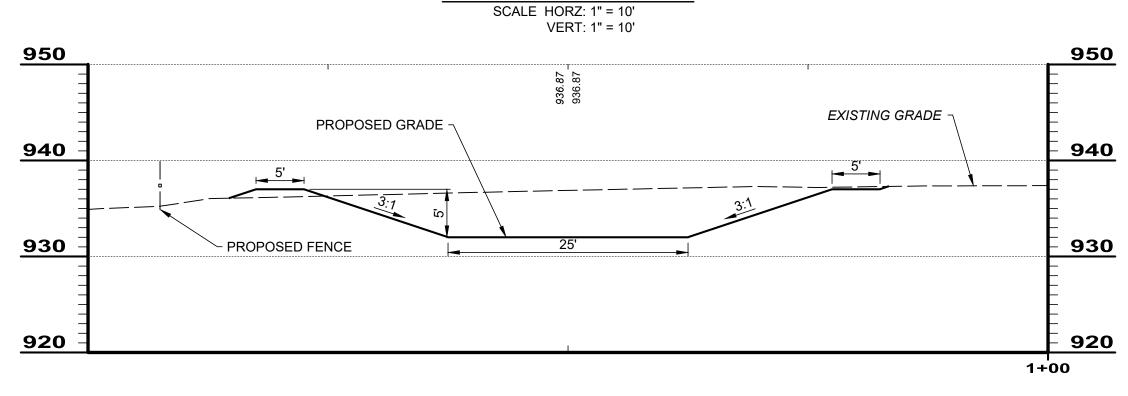
REFER TO DETAIL SHEETS FOR NOTES AND MAINTENANCE INFORMATION ON ADDITIONAL BMP'S.

A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.





POND S-N SECTION



POND W-E SECTION

SCALE HORZ: 1" = 10'

VERT: 1" = 10'

JEFFERSON COMMUNITY PARK
260 E JEFFERSON STREET
- VILLAGE OF JEFFERSON, ASHTABULA COUNTY STORMWATER POND GRADING
DIAN

DISCIPLINE

CIVIL

SHEET NAME

C-8

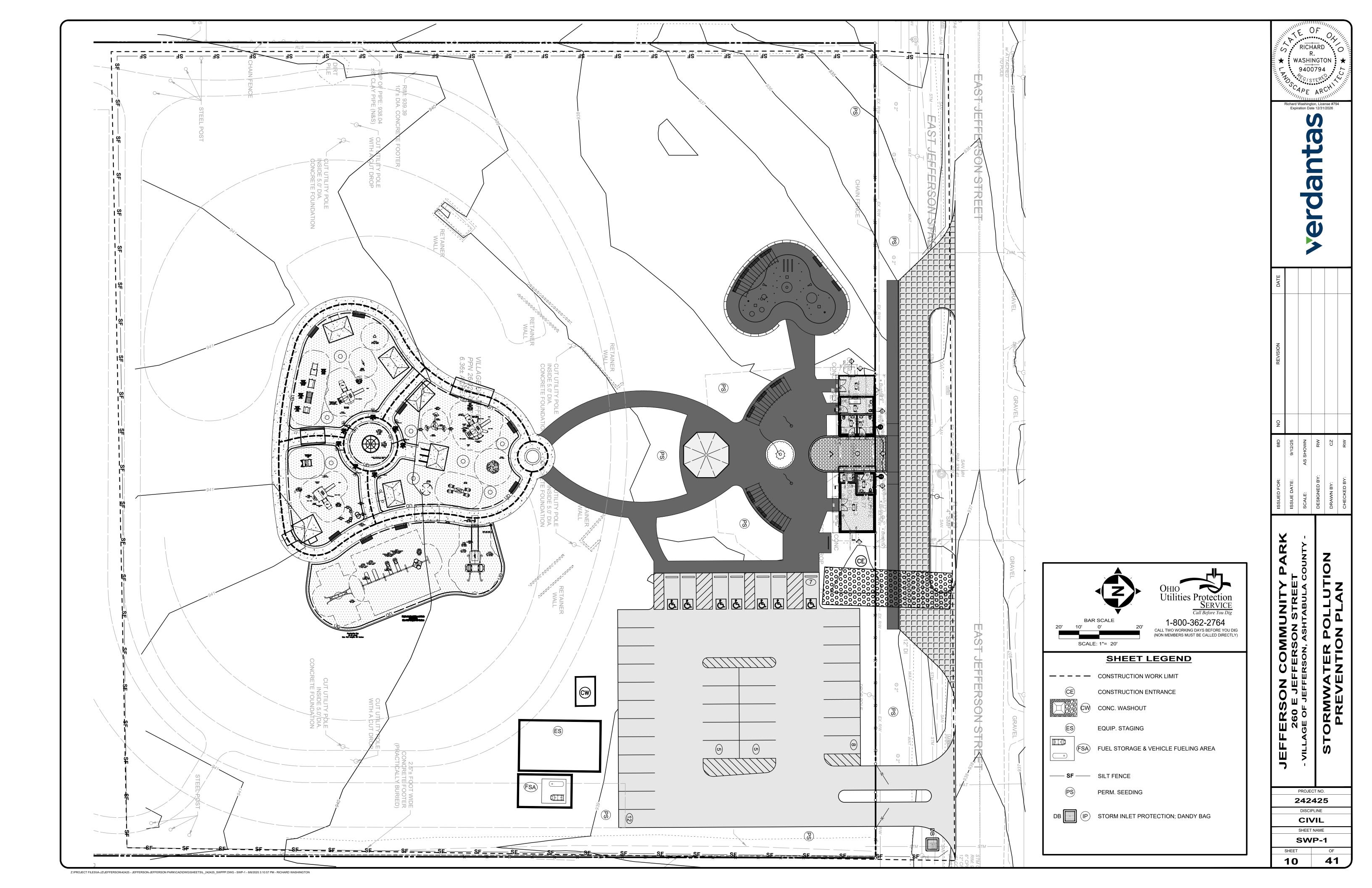
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SHEET

JUSTIN E.

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SITE INFORMATION

PROJECT INFORMATION: 260 E JEFFERSON ST JEFFERSON, OHIO 44047 LATITUDE: 41.73836

LONGITUDE: 80.756073

OWNER INFORMATION: VILLAGE OF JEFFERSON 27 E JEFFERSON ST, JEFFERSON, OH 44047 CONTACT: CHRIS MACKENSEN

PHONE: 440-576-3946

SITE-CIVIL ENGINEER INFORMATION:

VERDANTAS 8150 STERLING COURT,

CONTACT: RICH WASHINGTON, PLA

PHONE: 440-951-9000

MENTOR, OHIO 44060

EMAIL: RWASHINGTON@VERDANTAS.COM

TYPE OF CONSTRUCTION:

() MAINTENANCE (X)REDEVELOPMENT () NEW

TYPE OF PROJECT

() RETAIL () COMMUNITY () MIXED USE () OFFICE (X) RECREATION () RESIDENTIAL () MEDICAL () PUBLIC SAFETY () RESTAURANT

() UTILITY ()ROAD

() EDUCATION () APARTMENT () INDUSTRIAL () MANUFACTURING

DESCRIPTION OF PROJECT:

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW PARKING LOT. RENOVATION OF THE ENTRANCE BUILDING TO INCLUDE RESTROOMS, AND THE ADDITION OF A CENTRAL PLAZA, PERGOLA, GAZEBO, COMPREHENSIVE PLAYGROUND WITH ACCESSIBLE EQUIPMENT, AND A SPLASH PAD. ADDITIONALLY, THE CURRENT ROAD WILL BE EXPANDED TO INCLUDE A DROP-OFF DRIVEWAY THAT ACCOMMODATES SCHOOL BUSES.

SOIL DISTURBING ACTIVITIES INCLUDE:

EROSION AND SEDIMENT CONTROL INSTALLATION; REMOVAL OF BASEBALL FIELD EQUIPMENT AND FURNISHINGS, GRASS, TOPSOIL, UTILITIES, AND SOIL BENEATH ASPHALT PAVEMENT AND PLAYGROUND; EARTHWORK GRADING; AND INSTALLATION OF NEW SPLASH PAD, PLAYGROUND EQUIPMENT AND RUBBER SURFACE, NEW LIGHT POLES, AND AN ASPHALT PARKING LOT.

DESCRIPTION OF PRIOR LAND USE:

THE EXISTING SITE IS CURRENTLY USED AS A BASEBALL FIELD, DIVIDED INTO TWO HALVES, EACH FENCED AND UTILIZED FOR ONE BASEBALL FIELD. THERE IS A STORAGE BUILDING LOCATED AT THE ENTRANCE.

SITE AREA INFORMATION:

TOTAL PROPERTY AREA:	6.50 AC.
PROJECT LIMIT/CONSTRUCTION AREA:	<u>2.80</u> AC.
AREA OF SOIL DISTURBANCE:	2.00 AC.
EXISTING IMPERVIOUS AREA:	0.05 AC.
PROPOSED IMPERVIOUS AREA:	0.80 AC.
INCREASE/DECREASE OF IMPERVIOUS AREA:	0.75 AC.

NAME OF RECEIVING STREAM, SURFACE WATER OR MS4: VILLAGE OF JEFFERSON MS4

QUALITY OF STORM WATER DISCHARGE FROM SITE:

ESTIMATED CONSTRUCTION START DATE:

8/01/2025 ESTIMATED CONSTRUCTION COMPLETION DATE: 05/25/2026

PLAN CERTIFICATION

I, THE UNDERSIGNED, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGED THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWN VIOLATIONS.

	DATE: 06/13/2025
ENGINEER	
	DATE:
OWNER/SITE OPERATOR	

SOIL TYPES

NAME	DESCRIPTION		
MhA	MILL SILT LOAM, 0 TO 2 PERCENT SLOPES.	100.0%	

GENERAL NOTES

THE CONTRACTOR SHALL REVIEW AND FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE CURRENT, ACTIVE OHIO EPA NPDES PERMIT NO. OHC000006.

- THIS SWP3 HAS BEEN PREPARED SHOWING THE ITEMS LISTED BELOW, BUT THE CONTRACTOR MAY NEED TO MOVE OR ADD ITEMS AS CONSTRUCTION PROGRESSES OR DURING THE VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO DEVELOP THE SWP3 FOR THIS PROJECT AND SUBMIT FOR APPROVAL TO THE SWCD SHOWING THE ITEMS LISTED BELOW. SOME ITEMS MAY ALREADY BE SHOWN ON THE SWP3, BUT MOVED TO BETTER SUIT THE CONTRACTOR'S MEANS AND METHODS.
 - LIMITS OF EARTH DISTURBING ACTIVITY
 - CONSTRUCTION ENTRANCE(S)
 - EROSION AND SEDIMENT CONTROL MEASURES
 - CONCRETE WASHOUT PIT(S)
- EQUIPMENT STAGING
- FUEL STORAGE AND VEHICLE FUELING AREA
- CONSTRUCTION TRAILER(S)
- SANITATION FACILITY
- MATERIAL STOCKPILE LOCATION(S)
- ANY OTHER EROSION CONTROL REQUIRED
- ALL WORK REQUIRED TO IMPLEMENT THE SW3P INCLUDING INSPECTION FEES. MAINTENANCE AND REPAIRS SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL AMEND THE SW3P WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES INSTALLATION OF BMPS OR MODIFICATION TO EXISTING BMPS.
- ADDITIONAL OR DIFFERENT BMPS MAY BE NEEDED AS CONSTRUCTION PROGRESSES OR AS REQUIRED BY THE OWNER, SWCD OR OHIO EPA.
- PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE LAND DISTURBED AT ANY ONE TIME AND LEAVE EXISTING VEGETATION IN PLACE AS LONG AS POSSIBLE.

ADMINISTRATIVE NOTES

- AN OHIO EPA NPDES PERMIT IS REQUIRED WHERE CONSTRUCTION ACTIVITIES DISTURB 1 OR MORE ACRES OF LAND, OR SMALLER SITES LESS THAN 1 ACRE THAT ARE PART OF A LARGER COMMON DEVELOPMENT. DISTURBED LAND IS LAND IN WHICH VEGETATION HAS BEEN CLEARED AND SOILS ARE EXPOSED TO STORM WATER. A NOI IS REQUIRED FOR THIS PROJECT AND MUST BE FILED WITH THE OHIO EPA AT LEAST 21 DAYS PRIOR TO THE START OF CONSTRUCTION BECAUSE THE TOTAL LAND DISTURBANCE IS GREATER THAN 1 ACRE.
- THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORMWATER GENERAL PERMIT OHC000006 AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL, AND BE RESPONSIBLE FOR ALL NPDES TERMS AND CONDITIONS UNTIL A NOT IS FILED.
- NO CONSTRUCTION ACTIVITIES MAY BEGIN UNTIL ALL OF THE FOLLOWING OCCUR:
 - OHIO EPA NPDES AUTHORIZATION LETTER RECEIVED
 - THE CONTRACTOR FILES A CO-PERMITTEE APPLICATION TO THE OHIO EPA
 - THE CONTRACTOR ATTENDS A PRE-CONSTRUCTION MEETING WITH THE SWCD TO DISCUSS OHIO EPA NPDES PERMIT REQUIREMENTS
- OHIO EPA APPLICATION FORMS (I.E. NOI, NOT, CO-PERMITTEE NOI/NOT, INDIVIDUAL LOT NOI/NOT AND PERMIT TRANSFER) ARE ONLY ACCESSIBLE ELECTRONICALLY VIA THE OHIO EPA STREAMS APPLICATION SUBMITTAL SYSTEM USING AN INDIVIDUAL EBUSINESS CENTER ACCOUNT. VISIT THE OHIO EPA'S ELECTRONIC BUSINESS SERVICES WEBSITE FOR MORE INFORMATION, GUIDANCE AND REPORTING QUESTIONS.
- THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE A "DELEGATION OF AUTHORITY FOR STORMWATER POLLUTION PREVENTION PLAN" AND PROVIDE A COPY TO THE OWNER AND SWCD.
- ALL PROCEDURES AND REQUIREMENTS CONTAINED IN THIS SW3P APPLY TO ALL GENERAL AND SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT. INFORM, REQUIRE AND ENFORCE ALL ASPECTS AND PROCEDURES OF THE SW3P. THE CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS THAT ARE OR MAY BE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORMWATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL", AND PROVIDE A COPY TO THE OWNER AND SWCD. EACH CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL FINES, DAMAGES AND LIABILITY RESULTING FROM FAILURE
- TO PROVIDE THE REQUIRED POLLUTION CONTROL. THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE NOI, NPDES, SW3P AND INSPECTION LOGS/REPORTS.
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD AND OHIO EPA.

EROSION CONTROL NOTES

- SPECIAL MEASURES SHALL BE TAKEN TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
- DIVERT SURFACE RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN THE TIME FRAMES IN THE FOLLOWING TABLES:

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY CONTROLS
AREA WITHIN 50 FEET OF A SURFACE WATER, NOT AT FINAL GRADE AND TO REMAIN IDLE MORE THAN 14 DAYS	WITHIN 2 DAYS OF MOST RECENT DISTURBANCE
ANY OTHER AREA TO BE DORMANT MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR	WITHIN 7 DAYS OF MOST RECENT DISTURBANCE
AREA TO REMAIN IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER
AREA TO BE PAVED	STABILIZE WITH STONE SUBBASE UNTIL PAVED

TIME FRAME TO APPLY CONTROLS
WITHIN 7 DAYS OF MOST RECENT DISTURBANCE
WITHIN 2 DAYS OF REACHING FINAL GRADE
WITHIN 7 DAYS OF REACHING FINAL GRADE

SEDIMENT CONTROL NOTES

- INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING.
- SEDIMENT PONDS, TEMPORARILY MODIFIED PERMANENT PONDS AND PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF CLEARING AND GRUBBING, AND CONTINUE TO FUNCTION UNTIL ALL DISTURBED UPLAND AREAS ARE STABILIZED.
- SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL.
- SEDIMENT-LADEN TRENCH OR GROUND WATER MUST PASS THROUGH A SEDIMENT-SETTLING POND OR BE DEWATERED IN-PLACE USING A SUMP PIT, FILTER BAG OR OTHER COMPARABLE METHOD, PRIOR TO DISCHARGE FROM THE SITE.
- TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT, PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
- SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.

OTHER WASTE CONTROL NOTES

- SOIL STOCKPILES SHALL BE RINGED WITH SILT FENCE ALONG THE BOTTOM FOOTPRINT. IF THE STOCKPILE WILL BE INACTIVE FOR 14 DAYS OR MORE, THE SURFACE SHALL BE SEEDED OR STABILIZED WITHIN 7 DAYS OF LAST DISTURBANCE.
- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS. ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, MUST BE DISPOSED OF IN A CONCRETE WASHOUT AREA TO COLLECT AND HARDEN.
- OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADS TO REMOVE MUD, DIRT OR ROCK TRACKED FROM THE SITE AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPAULIN.
- IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS SOLID OR LIQUID WASTE INCLUDING TRASH, CONSTRUCTION DEBRIS, SOLVENTS, PAINT, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUND, ANTIFREEZE OR OTHER TOXIC OR HAZARDOUS WASTE. WASTE MATERIALS SHALL BE COLLECTED IN A SECURELY LIDDED DUMPSTER, DISPOSED OF IN AN APPROVED LANDFILL AND EMPTIED AS NECESSARY.
- FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA WITH A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. A DIKED AREA IS NOT NECESSARY IF A SELF-CONTAINED SPILL PROOF TANK IS USED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE. SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS 1 TIME PER WEEK, OR MORE OFTEN IF NECESSARY.
- ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES TO THE LOCAL FIRE DEPARTMENT AND OHIO EPA.
- CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED OR HAZARDOUS WASTE MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK AND DISPOSED OF AS A WASTE WATER.

TMDLS AND BMPS SELECTED

- APPLICABLE TMDLS FOR THE SITE: (X) PHOSPHORUS () AMMONIA (X) HABITAT (X) NITROGEN (X) BACTERIA () FLOW () SEDIMENT/TOTAL SUSPEND SOLIDS
- THE FOLLOWING BMPS ARE SELECTED TO ADDRESS APPLICABLE TMDLS FOR THE PROJECT:

(X) DISSOLVED OXYGEN/ORGANIC ENRICHMENT

CONSTRUCTION SITE:

() DEMARCATE PROTECTED AREA BEFORE CONSTRUCTION (X) MAINTAIN PORTABLE TOILET AND EMPTY W/OUT SPILL () PROPER STORAGE OF LANDSCAPE FERTILIZER (X) MS4 MONTHLY INSPECTIONS DURING CONSTRUCTION (X) RESOLVE NON-COMPLIANCE SW3P INSPECTION ITEMS () FINAL INSPECTION TO ENSURE BMP IMPLEMENTATION

TEMPORARY EROSION CONTROL:

() CHECK DAMS	() TEMPORARY DIVERSION
() SLOPE DRAIN	() STREAM UTILITY CROSSING
() DEWATERING	() STREAM CROSSING

TEMPORARY SEDIMENT CONTROL:

(X) SEDIMENT BASIN	() SEDIMENT TRAP
(X) SILT FENCE	() INLET PROTECTION
() FILTER SOCK	() FILTER BERM

SOIL STABILIZATION:

(X) DUST CONTROL	() PHASED DISTURBANCE
(X) MULCHING	(X) CLEARING AND GRUBBING
() SODDING	() TEMPORARY SEEDING
(X) TOPSOILING	(X) PERMANENT SEEDING
() GRADE TREATMENT	(X) CONSTRUCTION ENTRANCE
() TEMPORARY ROLLED E	ROSION CONTROL PRODUCTS
() TURF REINFORCEMENT	MATTING

PERMANENT EROSION CONTROL

(X) GRASSED SWALE	() ROCK LINED CHANNEL
() LEVEL SPREADER	(X) ROCK OUTLET PROTECTION
() DIVERSION	() SUBSURFACE DRAIN

() TREE AND NATURAL AREA PRESERVATION

POLLUTION PREVENTION AND GOOD HOUSEKEEPING: (X) ROUTINE FACILITY INSPECTIONS

(X) VISUAL ASSESSMENT OF STORM WATER DISCHARGE () ANNUAL COMPREHENSIVE SITE INSPECTION (X) SWEEP PARKING LOT AND DRIVE LANES

(X) CLEAN CATCH BASINS (X) STORE WASTE IN LIDDED CONTAINERS () LOCATE SNOW DISPOSAL AREAS AWAY FROM BMPS () ESTABLISH "PICK-UP PET WASTE" STATION

() WETLAND SETBACK () STREAM SETBACK

() WATER QUALITY POND () PERMEABLE PAVEMENT

POST-CONSTRUCTION:

() GRASS FILTER STRIP	() INFILTRATION TRENCH
() TREE BOX FILTER	() SAND FILTER
() GREEN ROOF	(X) LTMA
() BIORETENTION AREA	() CISTERN
() BIORETENTION WITH IN	ITERNAL WATER STORAGE
(X) OPEN CHANNEL SWALE	ES
() WET EXTENDED DETEN	ITION BASIN
(X) DRY EXTENDED DETEN	ITION BASIN WITH FOREBAY
() RETROFIT SWMF TO TR	REAT WQV
() RETROFIT SWMF TO IN	CREASE INFILTRATION
() RETROFIT SWMF POND	TO FUNCTION AS WETLAND

- () AS-BUILT POST-BMPS () SUBMIT LTMA ANNUAL MAINTENANCE REPORT TO MS4
- () VEGETATE MAINTENANCE/STORAGE YARD OPEN AREAS () IMPLEMENT LOW-MOW OR NO-MOW PRACTICES () PEST MANAGEMENT PROGRAM

PERMIT CLOSURE REQUIREMENTS

- FINAL STABILIZATION REQUIRES THE CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROLS FROM THE SITE AND ALL SEDIMENT TRAPPED BY THOSE CONTROLS BE PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL COMPLETE A "FINAL CERTIFICATION AND NOTIFICATION FOR EROSION AND SEDIMENT CONTROL" UPON PROJECT COMPLETION AND PROVIDE A COPY TO THE OWNER AND SWCD. ONCE CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SITE
- REACHES FINAL STABILIZATION, THE CONTRACTOR MUST TERMINATE THE NPDES PERMIT COVERAGE BY FILING A NOT WITH THE OHIO EPA WITHIN 45 DAYS OF FINAL STABILIZATION. FINAL STABILIZATION IS DEFINED AS AN ESTABLISHED VEGETATIVE GROUND COVER OF AT LEAST 70% GROWTH DENSITY, OR OTHER MEANS OF PERMANENT STABILIZATION, OVER ALL AREAS DISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR MUST MAINTAIN ALL REPORTS FOR 3 YEARS AFTER THE NOT IS FILED, AND PROVIDE DIGITAL COPIES TO THE OWNER AND SWCD.

MAINTENANCE REQUIREMENTS

- BMPS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS, POSSESS THE TECHNICAL SKILLS TO ASSESS SITE CONDITIONS THAT COULD IMPACT STORM WATER QUALITY, AND CAN ASSESS THE EFFECTIVENESS OF ANY BMP SELECTED.
- A QUALIFIED PERSON MUST INSPECT BMPS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL IN A 24-HOUR PERIOD TO DETERMINE IF THE SWP3 WAS PROPERLY IMPLEMENTED.
- THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION SUMMARIZING INSPECTION RESULTS INCLUDING THE FOLLOWING:
 - DATE OF INSPECTION NAME AND QUALIFICATION OF THE INSPECTOR
- WEATHER CONDITIONS
- LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION OR OTHER POLLUTANTS WERE OBSERVED.
- LOCATIONS OF BMPS NEEDING MAINTENANCE.
- LOCATIONS OF BMPS FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION.
- LOCATION OF AREAS IN NEED OF ADDITIONAL BMPS NOT IN PLACE AT THE TIME OF INSPECTION.
- CORRECTIVE ACTIONS REQUIRED, CHANGES TO THE SW3P AND IMPLEMENTATION DATES.
- GRADING AND STABILIZATION ACTIVITY LOG
- EROSION AND SEDIMENT CONTROL AMENDMENT LOG ALL INCIDENCES OF NON-COMPLIANCE MUST BE IDENTIFIED IN

THE REPORT. IF A REPORT DOES NOT IDENTIFY INCIDENCES

10 DAYS, OF THE INSPECTION THAT REVEALED A DEFICIENCY.

- OF NON-COMPLIANCE, IT MUST CONTAIN A CERTIFICATION THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION. BMP MAINTENANCE OR REPAIR MUST BE COMPLETED WITHIN 3 DAYS, AND SEDIMENT POND MAINTENANCE OR REPAIR WITHIN
- WHEN AN INSPECTION REVEALS A BMP IS NOT EFFECTIVE AND A MORE APPROPRIATE BMP IS REQUIRED, THE SW3P SHALL BE AMENDED, THE NEW BMP INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY, AND THE "STORMWATER POLLUTION PREVENTION PLAN AMENDMENT LOG" FORM COMPLETED.
- WHEN AN INSPECTION REVEALS A BMP HAS NOT BEEN INSTALLED, BUT IS REQUIRED TO PROVIDE ADEQUATE CONTROL, IT MUST BE INSTALLED PRIOR TO THE NEXT STORM EVENT WHICH PRODUCES RUNOFF, BUT IN NO CASE LATER THAN 10 DAYS FROM THE INSPECTION THAT REVEALED THE DEFICIENCY.
- THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER WEATHER (I.E. SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
- 10. FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR
- EXTENDED PERIODS OF TIME (I.E. MORE THAN 1 MONTH). SOIL DISTURBANCE ACTIVITIES HAVE BEEN SUSPENDED.
- 12. THE BEGINNING AND ENDING DATES OF THE WAIVER PERIOD ARE DOCUMENTED IN THE SW3P. 13. ONCE A DEFINABLE AREA HAS BEEN FULLY STABILIZED, IT MAY
- BE MARKED ON THE SW3P AND NO FURTHER INSPECTION REQUIREMENTS ARE REQUIRED FOR THAT AREA OF THE SITE. 14. INSPECTIONS SHALL BE PERFORMED UNTIL A NOT IS FILED
- WITH THE OHIO EPA. 15. INSPECTION RECORDS ARE TO BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITY.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

- CONTACT CITY OF MENTOR PRIOR TO ANY EARTH MOVING
- CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES.
- BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPS.
- ESTABLISH STAGING AREA AND NON-SEDIMENT BMPS. INSTALL SILT FENCE, INLET PROTECTION AND CONSTRUCTION
- ENTRANCE. INSTALL OTHER TEMPORARY EROSION, SEDIMENT BASIN, AND SEDIMENT CONTROL ITEMS AS SOON AS POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER FIRST SOIL DISTURBANCE. INSPECT AND MAINTAIN BMPS FOR THE PROJECT DURATION UNTIL
- UPSLOPE AREAS ARE PERMANENTLY STABILIZED. BEGIN SITE DEMOLITION AND CONSTRUCTION.
- BEGIN EARTHWORK OPERATIONS TO ALLOW FOR INSTALLATION OF THE STORM SEWERS.
- 9. INSTALL STORM SEWERS AND INLETS. 10. BEGIN MASS GRADING OF THE SITE.
- 11. CONSTRUCT REMAINING WATER AND ELECTRIC UTILITIES.
- 12. INSTALL CONCRETE CURBS AND ASPHALT PAVEMENT. 13. INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND
- 14. CONVERT SEDIMENT BASIN TO POST-CONSTRUCTION DESIGN.
- 15. APPLY PERMANENT SEED.
- 16. INSTALL LANDSCAPING. 17. CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING,
- AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED.
- REMOVE TEMPORARY BMPS FROM STORM SEWER AND INLETS AND OPEN GUTTERS AND DITCHES TO OBTAIN FREE DRAINAGE.
- 19. DISPOSE OF ALL DEBRIS AND WASTE MATERIAL.

E OF RICHARD WASHINGTON 9400794

CAPE ARCY Expiration Date 12/31/2026

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PROJECT NO. 242425 DISCIPLINE CIVIL

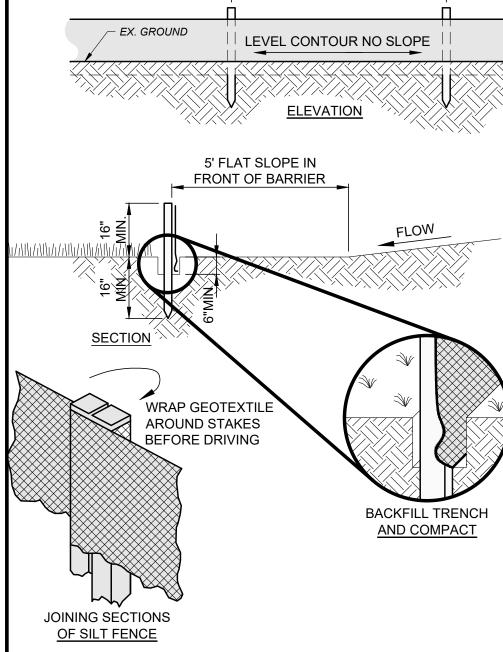
SHEET NAME SWP-2 41

SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW

- ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.
- THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
- SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
- SEEDING SHOULD NOT BE APPLIED FROM OCTOBER 1 TO NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DORMANT SEEDING:
 - FROM OCTOBER 1 TO NOVEMBER 20, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, MULCH AND ANCHOR.
 - FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.
- APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING.
- PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED. AVOID EXCESSIVE IRRIGATION AND MONITOR TO PREVENT EROSION AND DAMAGE FROM RUNOFF.
- 10) PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION, AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.
- 12) REFER TO SPECIFICATIONS AND RESTORATION PLAN FOR PERMANENT SEED MIXES.

PERMANENT SEEDING DETAIL

SCALE: NONE



10 FT MAX. SPACING

HOD
1 2
1 6
IEVE 15
-26

NOTES:

- PRESERVE VEGETATION FOR 5 FEET OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
- 2) THE MAXIMUM DRAINAGE AREA PER 100 FEET OF SILT FENCE IS DEPENDENT ON THE SLOPE, BUT NO MORE THAN 1/2 ACRE. SILT FENCE CANNOT BE USED FOR DRAINAGE AREAS WITH SLOPES GREATER THAN 50%.
- 3) SILT FENCE MAY ONLY PASS RUNOFF AS DIFFUSE FLOW <code>FHROUGH</code> THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SIL 1 FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, THEN CHANGE THE LAYOUT OF THE SILT FENCE, REMOVE ACCUMULATED SEDIMENT OR INSTALL OTHER PRACTICES.
- SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, VERIFICATION FABRIC IS SECURELY ATTACHED TO FENCE POSTS. AND VERIFICATION FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED 1/3 THE FENCE HEIGHT.

SILT FENCE

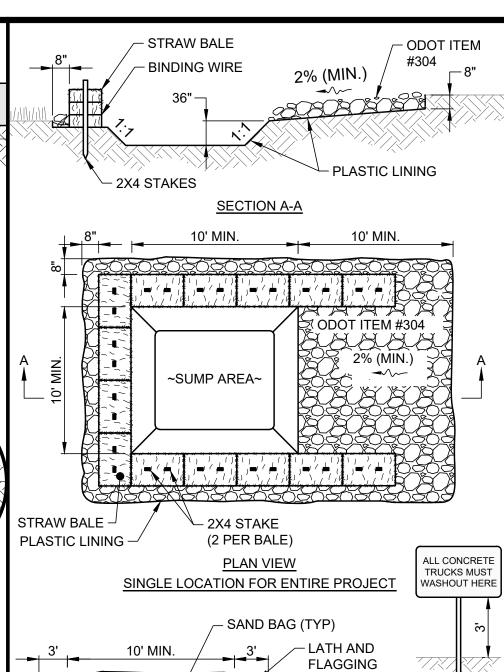
1) MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

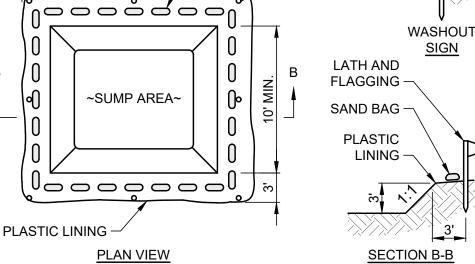
- UNROTTED SMALL GRAIN STRAW SPREAD UNIFORMLY AT 2 TONS/AC. (2 TO 3 BALES).
- WOOD-CELLULOSE FIBER (I.E. HYDROSEEDING) APPLIED AT 1 ROLLED EROSION CONTROL PRODUCT OR MULCH MATTING
- APPLIED PER MANUFACTURER RECOMMENDATION.
- WOOD MULCH OR CHIPS APPLIED AT 6 TONS/AC.

3) MULCH SHALL BE ANCHORED IMMEDIATELY BY ONE OF THE FOLLOWING METHODS:

- PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL USING A DISK, CRIMPER OR SIMILAR TOOL. DO NOT FINELY CHOP STRAW TO BE MECHANICALLY ANCHORED, BUT LEAVE LONGER THAN 6".
- USE NETTING PER MANUFACTURER RECOMMENDATION IN AREAS OF CONCENTRATED RUNOFF OR ON CRITICAL SLOPES.
- SYNTHETIC BINDERS AT MANUFACTURER RATE.
- WOOD-CELLULOSE FIBER BINDER AT A NET DRY WEIGHT OF 750 LB/AC., MIXED WITH WATER, AND CONTAIN 50 LB/100 GAL. MAX. OF WOOD CELLULOSE FIBER.

MULCHING DETAIL





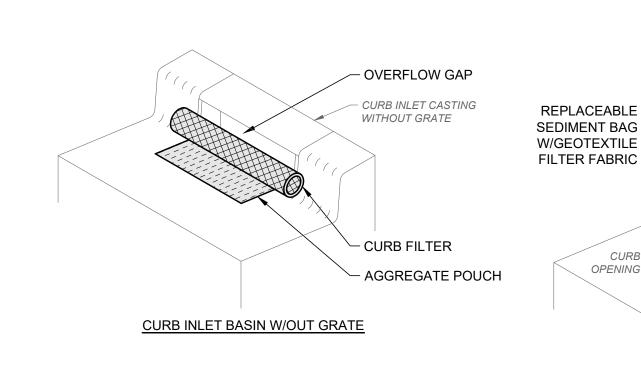
TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

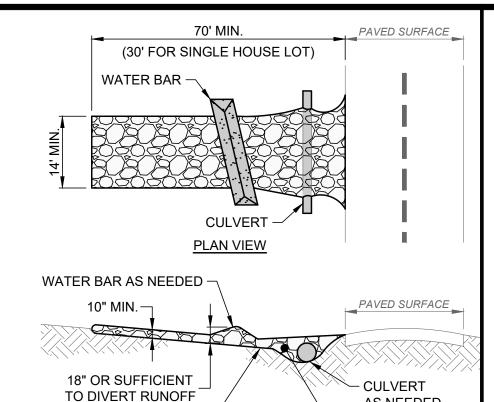
NOTES:

- 1) CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS
- 2) IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
- 3) CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
- 4) PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
- 5) CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- 6) CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
- 7) PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE IF SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
- 8) CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

CONCRETE WASHOUT AREA DETAIL

SCALE: NONE





PROFILE NOTES

GEOTEXTILE

1) GEOTEXTILE SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS MEETING THE FOLLOWING:

TENSILE STRENGTH	200 LB				
PUNCTURE STRENGTH	80 PSI				
TEAR STRENGTH	50 LB				
BURST STRENGTH	320 PSI				
ELONGATION	20%				
EQUIVALENT OPENING SIZE	< 0.6 MM				
PERMITTIVITY	0.001 CM/SEC.				

- 2) INSTALL WATER BAR, AS NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING OUT ONTO PAVEMENT.
- 3) APPLY ADDITIONAL STONE AS CONDITIONS DEMAND, REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6", AND REPLACE IF STONES BECOMES MUD-LADEN.
- IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE
- CONSTRUCTION ENTRANCE SHALL REMAIN UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT

CONSTRUCTION ENTRANCE

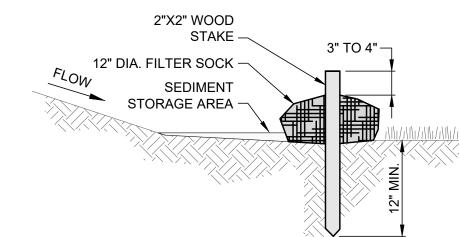
- STORM GRATE

CURB INLET BASIN W/GRATE

CURB OPENING -

SCALE: NONE

RESTRICTED FROM MUDDY AREAS.



AS NEEDED

─ NO. 2 STONE

FLEXSTORM CATCH-IT

LITE OR EQUAL

SQUARE OR RECTANGULAR INLET BASIN

W/ OR W/OUT CASTING FRAME

REAR CURB GUARD

FLAP W/MAGNETIC

TIE DOWNS

- FLEXSTORM

─ OVERFLOW AREA

- LIFT HANDLES

- SIZE VARIES PER

- CURB INLET

CASTING W/GRATE

DIMENSION

BASIN SHAPE AND

OVERFLOW AREA

CONTAINMENT AREA

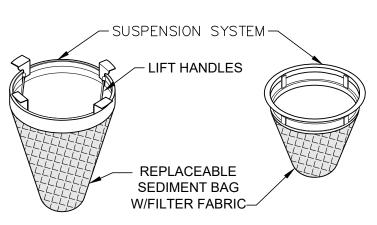
- 1) FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
- COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
- FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE.
- FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
- BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
- WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.

- LIFT HANDLES

THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE FOLLOWING THE GUIDANCE CHART BELOW:

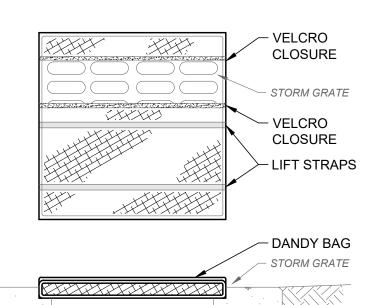
FILTER SOCK DETAIL (ALT. TO SILT FENCE)

SCALE: NONE



ROUND INLET BASIN W/ OR W/OUT CASTING FRAME

NYLOPLAST INLET BASIN



"DANDY BAG"

NOTES:

- 1) ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED UNLESS THE SEWER IS INACTIVE DUE TO PRIOR WORK.
- 2) INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
- 3) FRAMING SHALL BE CONSTRUCTED OF CORROSION RESISTANT STEEL (ZINC PLATED OR GALVANIZED).
- 4) NOT ALL ITEMS SHOWN MAY APPLY, OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.

INLET PROTECTION DETAIL

SCALE: NONE

PROJECT NO. 242425

DISCIPLINE

CIVIL

SHEET NAME SWP-3

41

RICHARD

WASHINGTON

9400794

CAPE ARCY

Expiration Date 12/31/2026

DELEGATION OF AUTHORI AND SEDIMENT C						
PROJECT NAME:						
PROJECT ADDRESS:						
I,THE PERSON OR DESCRIBED POSITION BELOW TO BE A DULY THE PURPOSE OF OVERSEEING COMPLIANCE WITH ENVIRON THE OHIO EPA NPDES CONSTRUCTION GENERAL PERMIT, AT DESIGNEE IS AUTHORIZED TO SIGN REPORTS, STORM WATER AND OTHER DOCUMENTS AS REQUIRED BY THE NPDES PERMITS.	NMENTAL REQUIREMENTS, INCLUDING THE DESIGNATED PROJECT. THE R POLLUTION PREVENTION PLANS (SWP3)					
NAME OF QUALIFIED PERSON AND/OR POSITION	_					
COMPANY NAME	PHONE NO.					
STREET ADDRESS						
BY SIGNING THIS AUTHORIZATION, I CERTIFY UNDER THE PENALTY OF LAW THAT ALL REQUIRED DOCUMENTS WILL BE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON(S) WHO MANAGES THE SYSTE OR IS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION TO BE SUBMITTED WILL BE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SUBSTANTIAL PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATION.						
COMPANY NAME	PHONE NO.					
STREET ADDRESS						
PRINT NAME AND TITLE						
SIGNATURE	DATE					

SUBCONTRACTOR ACE EROSION AND SEDIM	
PROJECT NAME:	
PROJECT ADDRESS:	
BY SIGNING THIS AGREEMENT, I CERTIFY UNDER THE PER UNDERSTAND THE TERMS AND CONDITIONS OF THE STOR (SWP3) FOR THE DESIGNATED PROJECT AND AGREE TO F SUBCONTRACTOR, I AM REQUIRED TO COMPLY WITH THE PROJECT. IT IS MY RESPONSIBILITY TO OBTAIN A COPY OF TO ADVISE MY EMPLOYEES WORKING ON THIS PROJECT ARE SUBSTANTIAL PENALTIES OR LOSS OF CONTRACT FOR INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT	RM WATER POLLUTION PREVENTION PLAN FOLLOW THE PRACTICES DESCRIBED. AS A E SWP3 FOR ANY WORK I PERFORM AT THE DF THE SWP3 FROM THE CONTRACTOR AND OF THE REQUIREMENTS. I AM AWARE THERE OR VIOLATING ANY CONDITION OF THE SWP3,
COMPANY NAME	PHONE NO.
STREET ADDRESS	
PRINT NAME AND TITLE	
SIGNATURE	DATE
DESCRIPTION OF CONSTRUCTION SERVICE(S) I AM TO PR	ROVIDE:

)		
PROJEC	CT NAME:	
PROJEC	CT ADDRESS:	
UNDER THAT Q FOR TH SYSTEM SUBMIT AWARE	MY DIRECTION OR SUPERVISION UALIFIED PERSONNEL PROPERLY E DESIGNATED PROJECT. BASED OR DIRECTLY RESPONSIBLE FOR TED IS, TO THE BEST OF MY KNOW	T THIS DOCUMENT AND ALL ATTACHMENTS WERE PREP. IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSUR OF GATHERED AND EVALUATED THE INFORMATION SUBMED ON MY INQUIRY OF THE PERSON(S) WHO MANAGED THE GATHERING THE INFORMATION, THE INFORMATION WLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE LITES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE KNOWING VIOLATIONS.
COMPA	NY NAME	PHONE NO.
STREET	Γ ADDRESS	
PRINT N	NAME AND TITLE	
SIGNAT	URE	DATE

OJECT ADI	ME: DRESS:				SHEET NO.:
DATE GRADING		DATE GRADING		IZATION INITIATED	DESCRIPTION OF STABILIZATION
ACTIVITY NITIATED	DESCRIPTION OF GRADING ACTIVITY	ACTIVITY CEASED	DATE	TYPE	MEASURE AND LOCATION (ATTACH SKETCH IF NECESSARY)
				☐ TEMP. ☐ PERM.	
				☐ TEMP. ☐ PERM.	
				☐ TEMP. ☐ PERM.	
				☐ TEMP. ☐ PERM.	
				☐ TEMP. ☐ PERM.	
				☐ TEMP. ☐ PERM.	
				☐ TEMP.	
				□ PERM. □ TEMP. □ PERM.	

PROJECT NAME	:	SHEET NO.:									
PROJECT ADDRESS:											
AMENDMENT NO.	DATE OF AMENDMENT	DESCRIPTION OF AMENDMENT	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION (ATTACH SKETCH IF NECESSARY)								

EROSION AND SEDIMENT CONTROL AMENDMENT LOG

RICHARD

R.

WASHINGTON

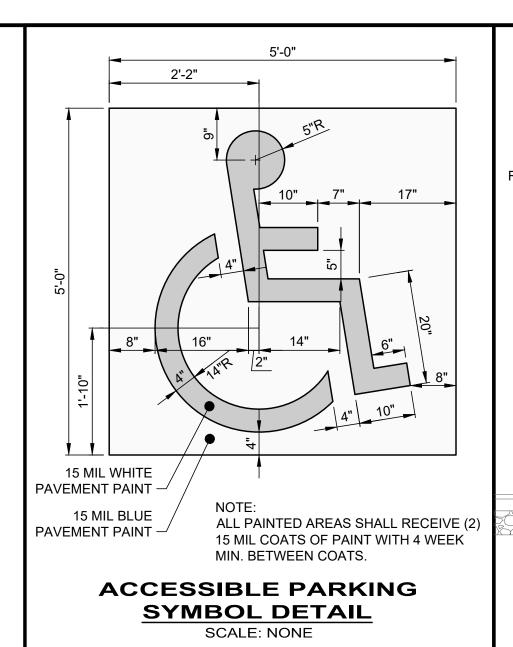
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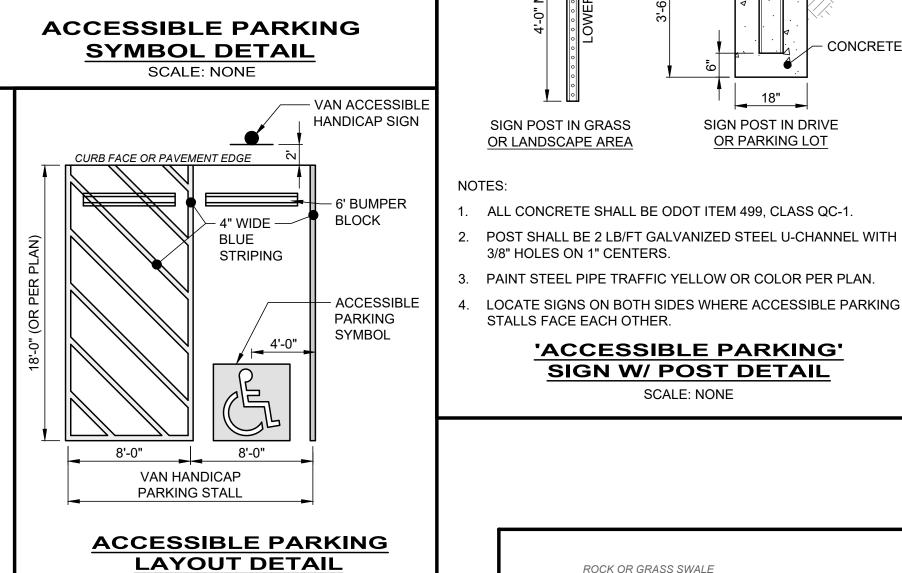
CAPE ARCHINIT

Richard Washington, License #
Expiration Date 12/31/2026

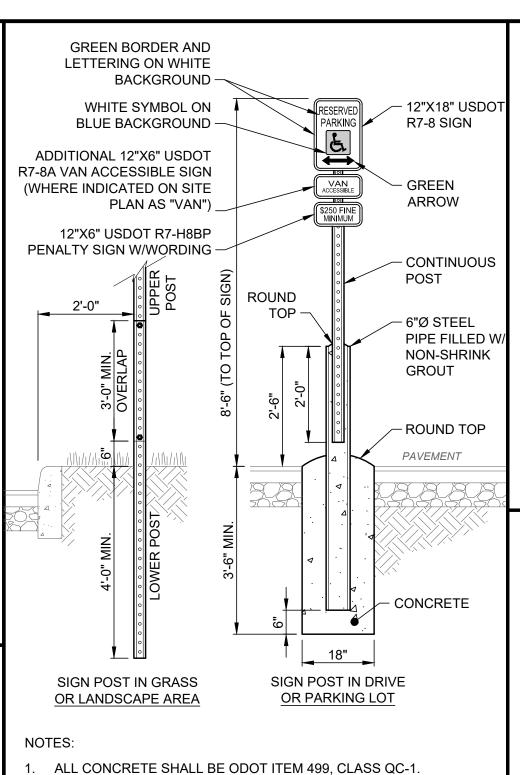
erdantas

SWP-4
SHEET OF





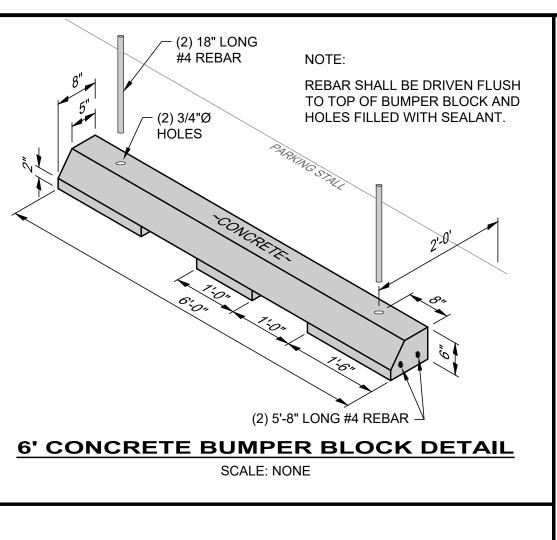
SCALE: NONE

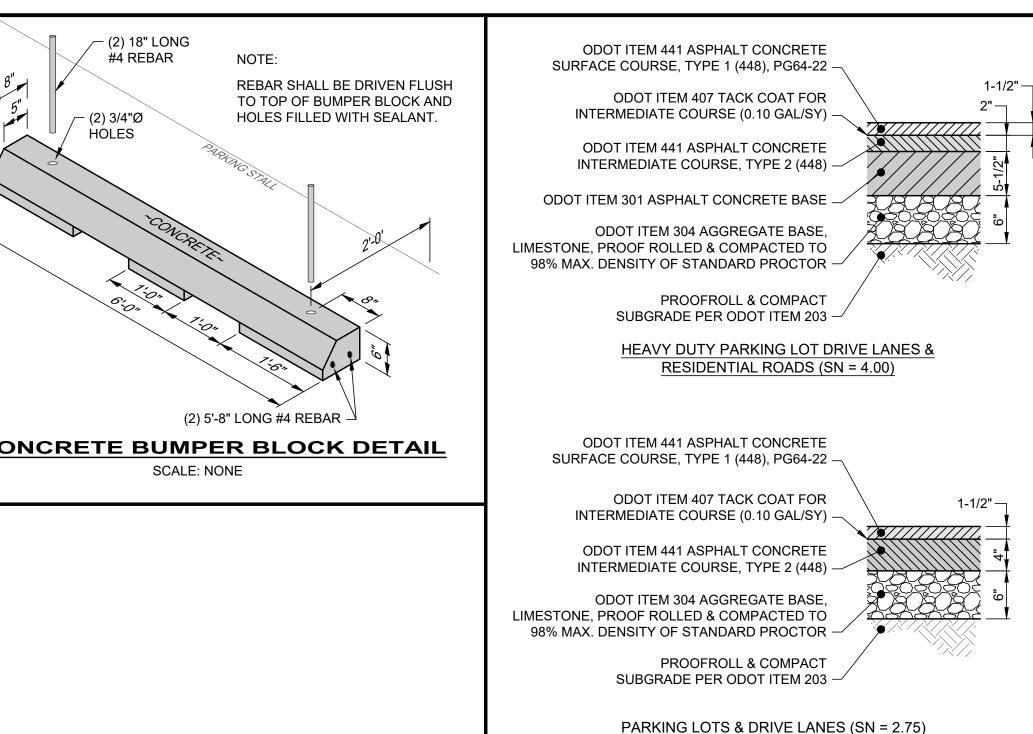


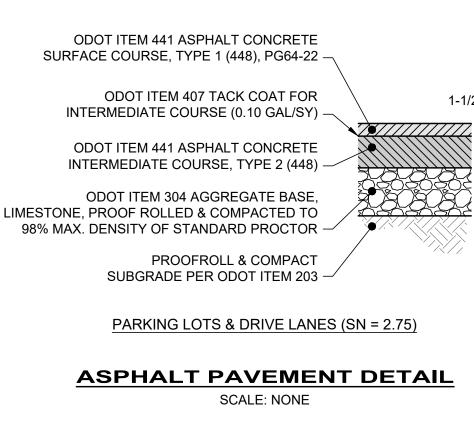
'ACCESSIBLE PARKING' **SIGN W/ POST DETAIL** SCALE: NONE

3/8" HOLES ON 1" CENTERS.

STALLS FACE EACH OTHER.







ADJACENT

TO LAWN

ROUND ALL EDGES AND JOINTS WITH A 1/4" RADIUS.

BE DARK GREY AS APPROVED BY OWNER.

INSTALL PREFORMED JOINT MATERIAL EVERY 30', OR BETWEEN SIDEWALK AND FIXED OBJECT (I.E. MANHOLE, WALK, BUILDING). WALK SHOWN FOR

COLORED CONCRETE MIX SHALL BE SCOFIELD INTEGRAL SG, COLOR TO

LIGHTLY BROOM THE FINISH PERPENDICULAR TO THE WALKING PATH OR

PER PLAN. IF HAND TOOLED JOINTS AND EDGES ARE SPECIFIED, FINISH

9. APPLY LIQUID-MEMBRANE CURING AND SEAL COMPOUND (200 S.F./GAL.)

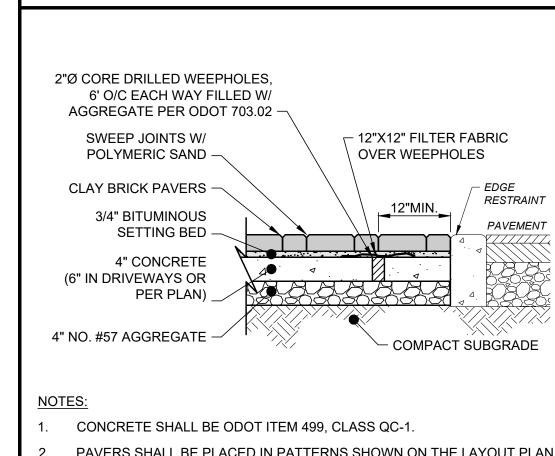
CONCRETE WALK DETAIL

SCALE: NONE

AFTER PANEL INTERIOR TEXTURE HAS BEEN APPLIED (I.E WINDOW PANE

ADJACENT TO WALK

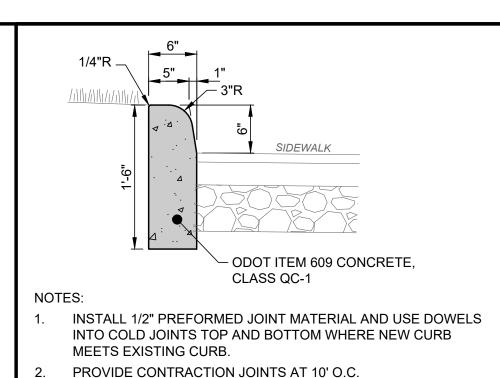
(I.E. FIXED OBJECT)



- PAVERS SHALL BE PLACED IN PATTERNS SHOWN ON THE LAYOUT PLAN WITH HAND TIGHT JOINTS NOT TO EXCEED 1/8" WIDE (1/16" MIN.) AND SOLDIER COURSE ON SIDES.
- PAVERS SHALL BE SAW CUT AS REQUIRED TO ELIMINATE EXCESSIVE JOINT WIDTHS. DO NOT USE FILLERS TO FILL JOINTS OF EXCESSIVE WIDTH; RESET AND SAW CUT PAVERS AS REQUIRED TO ELIMINATE **EXCESSIVE JOINT WIDTHS.**

BRICK PAVERS DETAIL

SCALE: NONE

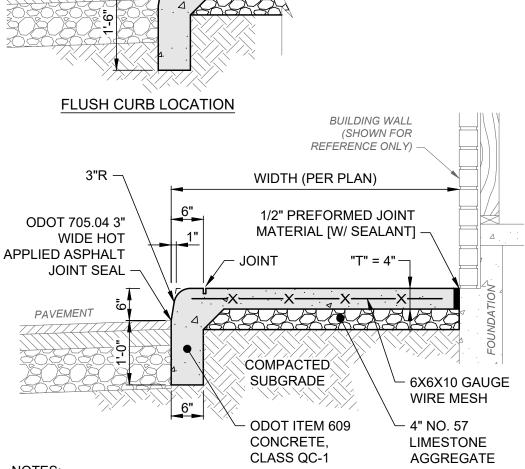


APPLY LIQUID-MEMBRANE CURING COMPOUND. (ODOT TYPE 6) **6" VERTICAL CURB DETAIL**

SCALE: NONE PAVEMENT SURFACE FOR

FLUSH CURB -

PAVEMENT



THIS DETAIL PROVIDES ADDITIONAL INFORMATION FOR INTEGRAL CURB AND WALK; SEE SEPARATE "CONCRETE WALK" DETAIL [AND "EXPANSION JOINT W/ SEALANT" DETAIL] FOR ADDITIONAL REQUIREMENTS.

FOR INTEGRAL CURB AND WALK LOCATED WITHIN LIMITS OF DRIVEWAYS AND DRIVE APRONS; SEE "WALK THROUGH DRIVEWAY" DETAIL FOR ADDITIONAL REQUIREMENTS.

> **CONCRETE INTEGRAL CURB & WALK DETAIL** SCALE: NONE

ROCK OR GRASS SWALE BEHIND DEPRESSED CURB, AS PER PLAN — NOTES: **VERTICAL CURB** VERIFY LIQUID-MEMBRANE CURING COMPOUND REQUIREMENTS ISOMETRIC DEPRESSED **ROCK OR LAWN MUST** NOT IMPEDE SURFACE WATER FLOW **VERTICAL CURB CROSS SECTION**

DEPRESSED CURB EDGE SHALL BE FLUSH WITH PAVEMENT AND SLOPE

THIS DETAIL SHOWS A VERTICAL CURB AND ROLLED CURB FOR

REFERENCES ONLY. SEE SITE PLAN FOR ACTUAL TYPE OF CURB.

DEPRESSED CURB AT GRASS

OR ROCK SWALE DETAIL

SCALE: NONE

MIN. 4'-0" WIDTH (OR PER PLAN) ODOT ITEM 608 1" PREFORMED CONCRETE JOINT MATERIAL -CLASS QC-1-NONSLIP BROOM FINISH −"T" = 4" **ODOT ITEM 608 CONCRETE** CLASS QC-1 PER SPLASH PAD SPECIFICATIONS -6X6X10 GAUGE 4" NO. 57 LIMESTONE WIRE MESH -AGGREGATE SEE LAYOUT PLAN FOR JOINT LOCATIONS. IF JOINTS ARE NOT PROVIDED. 4" NO. 57 LIMESTONE AGGREGATE THEN THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL JOINTS. DIVIDE JOINTS INTO EQUALLY SPACED RECTANGULAR BLOCKS. SAW CUT OR HAND TOOL JOINT 1/8" WIDE BY 1/4 OF "T" DEEP.

PROOFROLL AND COMPACT SUBGRADE PER ODOT ITEM

REFER TO SPLASH PAD SPECIFICATIONS FOR FOR JOINT REQUIREMENTS AND LOCATIONS.

WITH SPLASH PAD VENDOR. VERIFY ALL CONCRETE PAD REQUIREMENTS WITH SPLASH PAD VENDOR.

SPLASH PAD REINFORCED **CONCRETE PAVEMENT DETAIL**

SCALE: NONE

TAPER -**BEGIN TAPER** - END TAPER

> **VERTICAL CURB TRANSITION** TO PAVEMENT DETAIL SCALE: NONE

PROJECT NO.

242425

DISCIPLINE

CIVIL

SHEET NAME

DT-1

14

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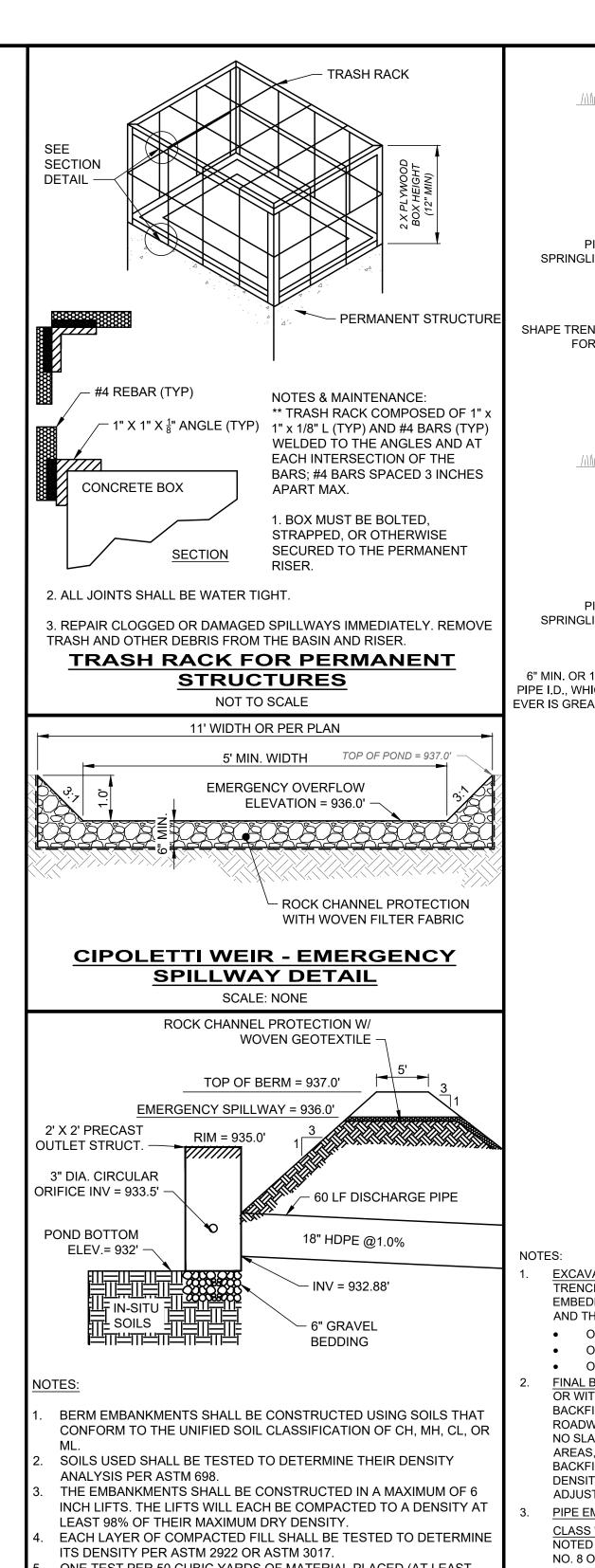
RICHARD

WASHINGTON

9400794

ichard Washington, License #79 Expiration Date 12/31/2026

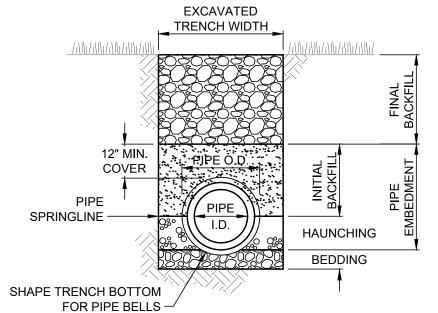
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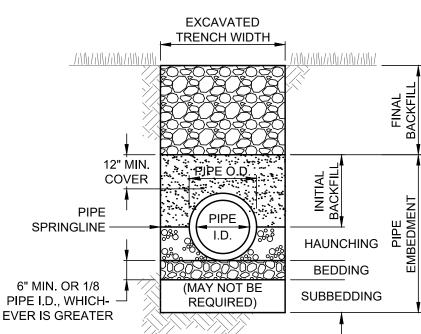
5. ONE TEST PER 50 CUBIC YARDS OF MATERIAL PLACED (AT LEAST ONE PER LAYER) SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY.

STORMWATER POND & OUTLET STRUCTURE

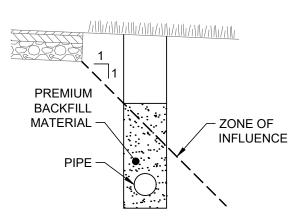
NOT TO SCALE



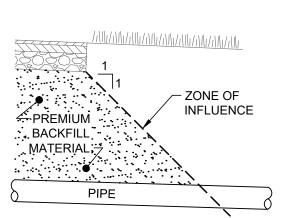
CLASS "C" PIPE EMBEDMENT



CLASS "B" PIPE EMBEDMENT



PARALLEL ZONE OF INFLUENCE



TRANSVERSE ZONE OF INFLUENCE

- 1. <u>EXCAVATED TRENCH WIDTH</u>: MEASURED FROM BOTTOM OF TRENCH TO 12" OVER TOP OF PIPE (WITHIN THE PIPE EMBEDMENT), THE MIN. TRENCH WIDTH SHALL BE O.D. + 18" AND THE MAX. SHALL BE:
 - O.D.+ 24" FOR 24" AND SMALLER I.D. PIPE
- O.D.+ 30" FOR 27" THRU 54" I.D. PIPE
 O.D.+ 48" FOR 60" AND LARGER I.D. PIPE
- 2. FINAL BACKFILL: ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE SHALL BE PREMIUM BACKFILL (ODOT ITEM 304 LIMESTONE). PAVEMENT INCLUDES ROADWAY, SHOULDER AND DRIVEWAY, BUT NOT SIDEWALK. NO SLAG OR SLACKER AGGREGATES ALLOWED. IN ALL OTHER AREAS, FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL BACKFILL SHALL BE COMPACTED TO 98% MAXIMUM DRY DENSITY OF STANDARD PROCTOR WITH MOISTURE CONTENT ADJUSTED TO +2/-2% OF OPTIMUM.

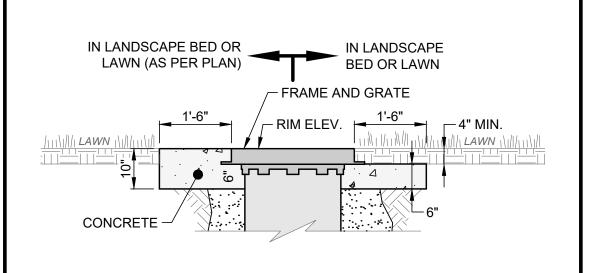
PIPE EMBEDMENT:

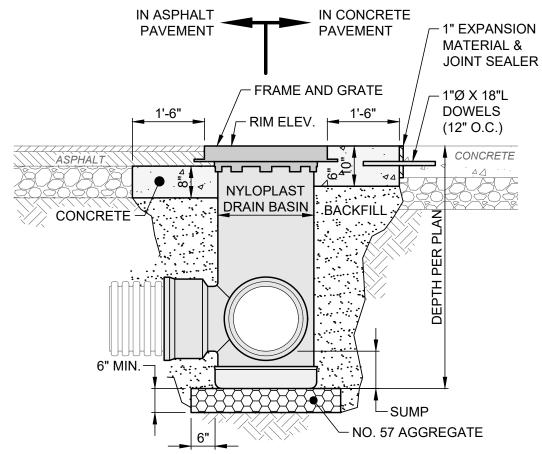
CLASS "B": SHALL BE USED FOR ALL PIPES UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING AND HAUNCHING SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN ALL OTHER AREAS, THE INITIAL BACKFILL MAY BE SUITABLE ON-SITE MATERIAL FOR RIGID PIPE, AND SHALL BE NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE FOR FLEXIBLE PIPE.

CLASS "C": SHALL BE USED ONLY FOR DUCTILE IRON WATER MAIN OR FORCE MAIN. THE PIPE EMBEDMENT SHALL BE NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. IN ALL OTHER AREAS, THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL. BEDDING IS NOT REQUIRED. WHERE ROCK OR SHALE IS ENCOUNTERED, BEDDING SHALL BE 6" MIN. OF NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE OR SAND.

- 4. <u>SUBBEDDING</u>: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
- 5. CLAY TRENCH DAMS SHALL BE REQUIRED FOR EACH LATERAL UPSTREAM OF EVERY MANHOLE OR AS SHOWN ON THE PLANS.

TRENCHING, EMBEDMENT
AND BACKFILL DETAIL
SCALE: NONE

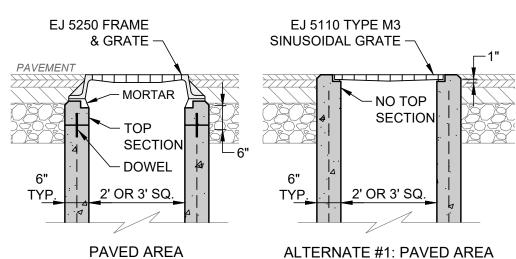


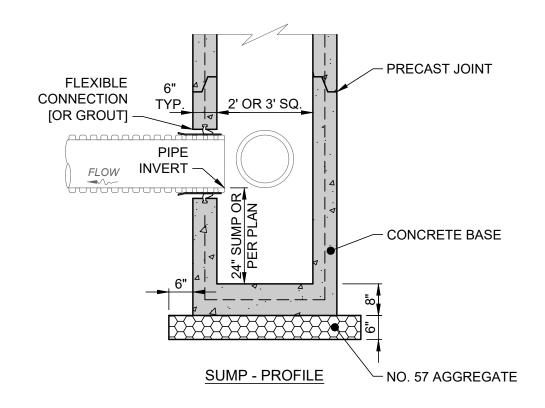


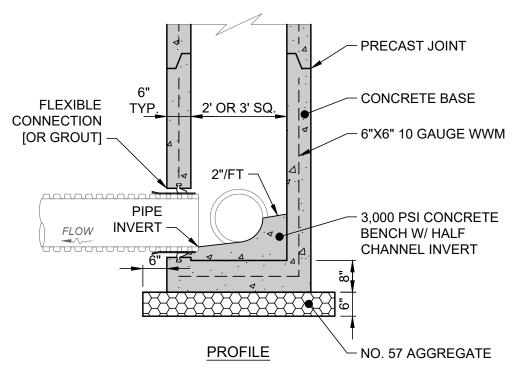
NOTES:

- . CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
- 2. STRUCTURE SHALL MEET H-20 LOADING.
- 3. FRAME AND GRATE ASSEMBLY SHALL BE ROAD AND HIGHWAY 2'X2', ROAD AND HIGHWAY 2'X3', STEEL BAR 2'X2', STEEL BAR 2'X3', OR AS PER PLAN.
- 4. GRATE SHALL INCLUDE LETTERING "DUMP NO WASTE" AND FISH IMAGE [AND A NPDES MARKER STATING "NO DUMPING, DRAINS TO RIVER"].
- 5. SUMP DEPTH SHALL BE 6" MIN. FOR 8" THRU 24" DIA. BASIN, 10" MIN. FOR 30" DIA. BASIN, OR PER PLAN.
- 6. USE APPROPRIATE PIPE ADAPTER FOR TYPE OF PIPE MATERIAL USED FOR WATER TIGHT CONNECTION.

(NYLOPLAST) INLET BASIN DETAIL SCALE: NONE







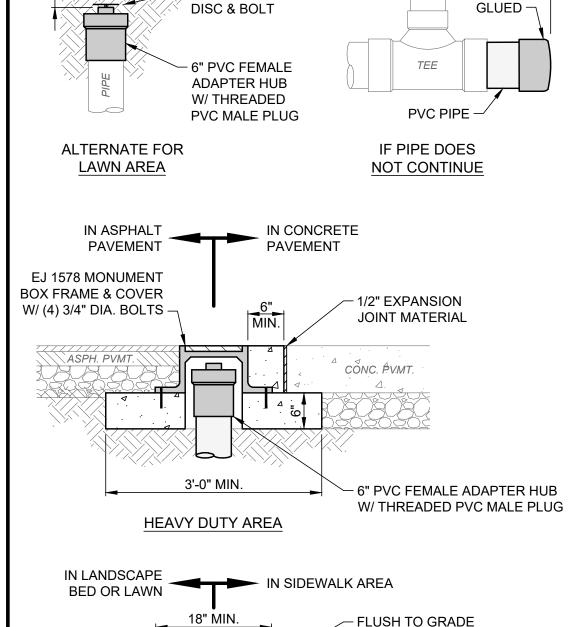
NOTES:

- 1. CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
- 2. STRUCTURE SHALL MEET H-20 LOADING.
- 3. PRECAST CONCRETE STRUCTURE AND REINFORCEMENT SHALL CONFORM TO ASTM C-913.
- 4. PIPE OPENINGS SHALL BE O.D. OF PIPE PLUS 2", AND ALL PIPE OPENINGS MUST BE PRECAST WITH FLEXIBLE CONNECTIONS (Z-LOK OR A-LOK) PER ASTM C-923.
- 5. IF TOP SECTION IS A SEPARATE CAST PIECE, 1/2"Ø X 6" L DOWELS SHALL BE USED AT EACH CORNER TO ATTACH THE TOP TO THE BOTTOM SECTIONS OF BASIN.
- GRATE MUST INCLUDE LETTERING "DUMP NO WASTE" AND FISH IMAGE.
- 7. THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE UTILITY PLAN FOR ACTUAL PIPE SIZES AND ELEVATIONS.

PRECAST CONCRETE INLET BASIN

DETAIL

SCALE: NONE



STAINLESS STEEL

2'-0"

END CAP

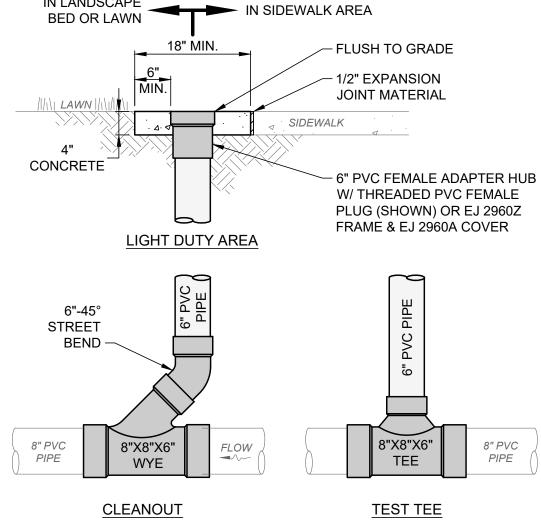
RICHARD

WASHINGTON

9400794

CAPE ARCY

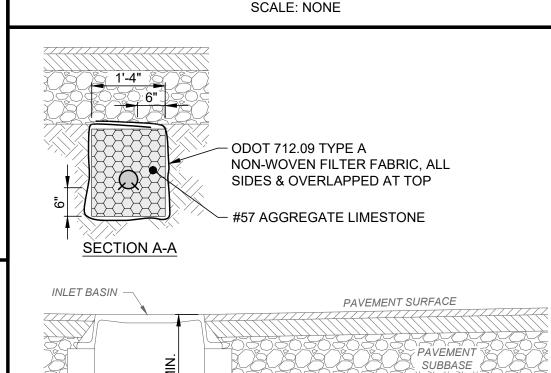
ichard Washington, License #7 Expiration Date 12/31/2026

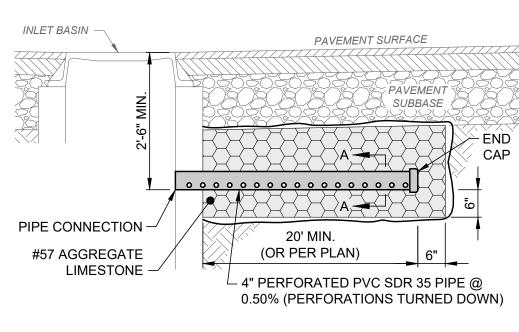


NOTES

- 1. CONCRETE SHALL BE ODOT ITEM 499, CLASS QC-1.
- 2. THIS DETAIL SHOWS A 6" CLEANOUT AND TEST TEE FOR REFERENCE ONLY. USE 4" CLEANOUT OR TEST TEE FOR 4" PIPE; 6" CLEANOUT OR TEST TEE FOR 6" PIPE AND LARGER; OR AS PER PLAN. NOT ALL ITEMS SHOWN MAY APPLY.

STORM CLEANOUT & TEST TEE DETAIL





FINGER DRAIN DETAIL
SCALE: NONE

JEFFERSON COMMUNITY PAF
260 E JEFFERSON STREET
-VILLAGE OF JEFFERSON, ASHTABULA COUNT
DETAILS

242425

DISCIPLINE

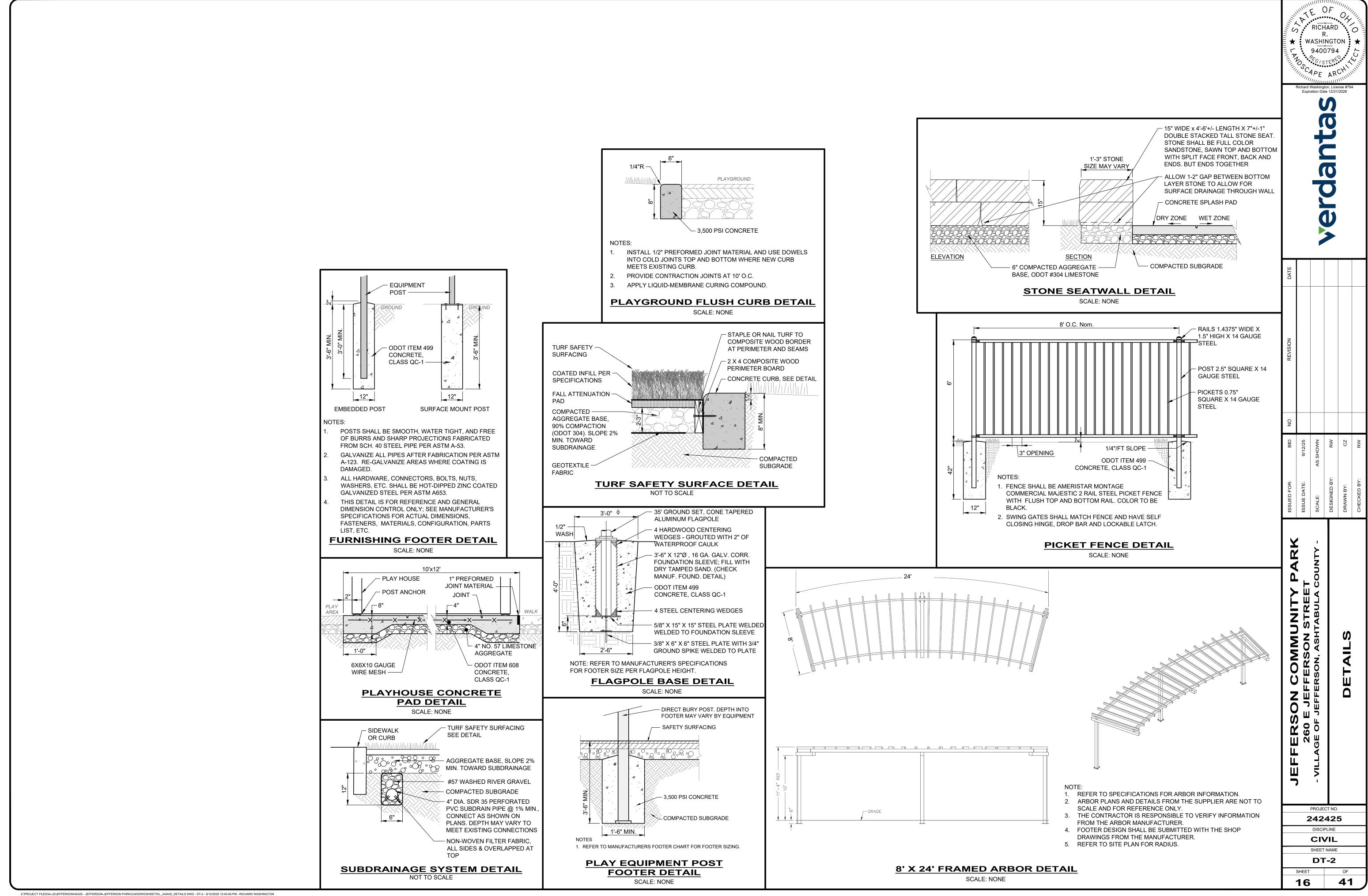
CIVIL

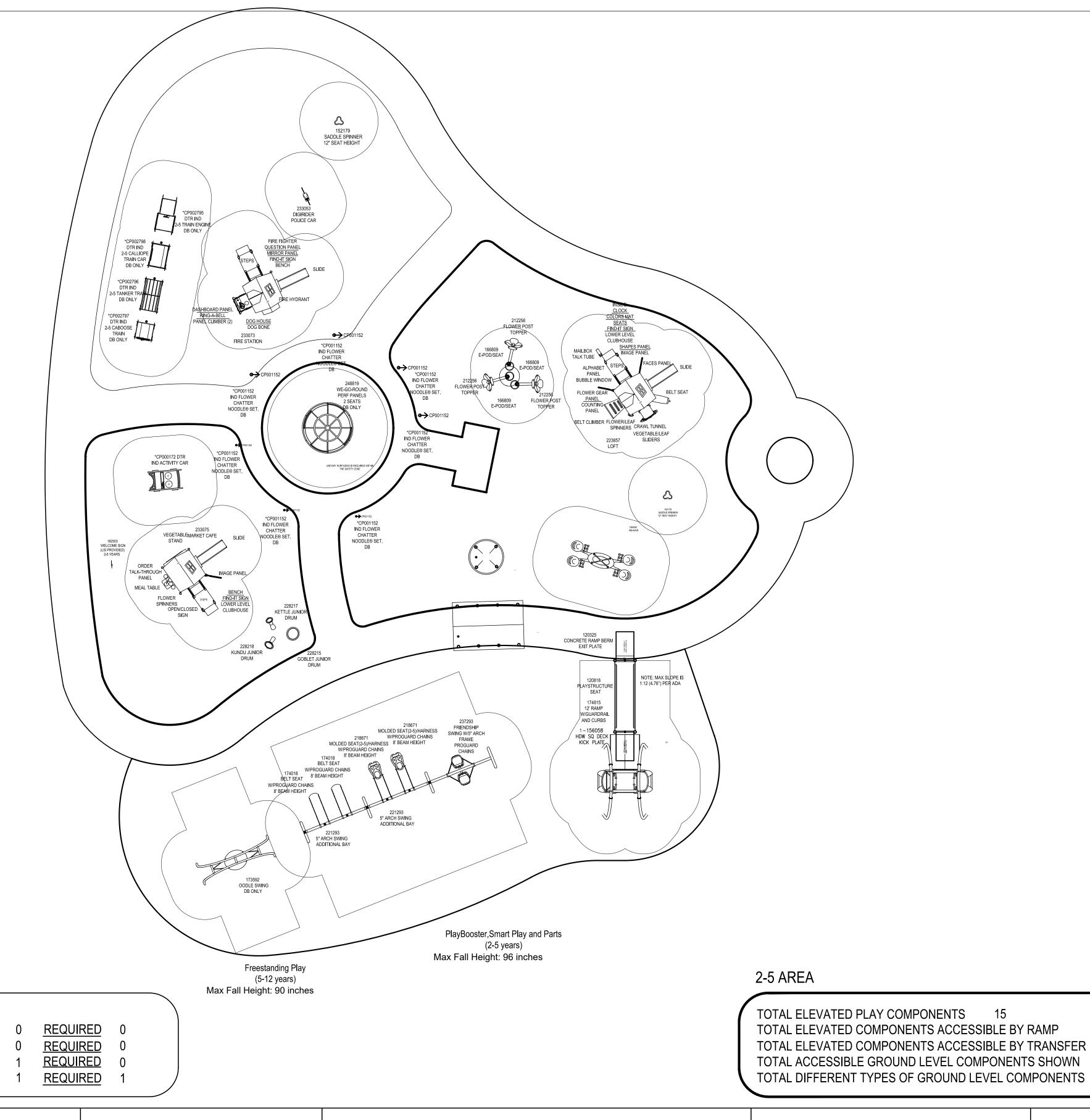
SHEET NAME

DT-3

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lends apera...



The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 2-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".

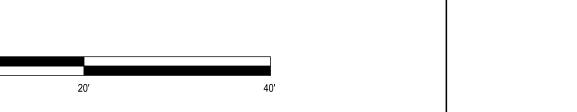
AREA OF ACCESSIBLE/PROTECTIVE SURFACING (TURF SUGGESTED) 11,778 SF

DESIGNED BY:

АН

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Date	Previous Drawing #	Initials <i> </i>
	3 "	



5-12 AREA

TOTAL ELEVATED PLAY COMPONENTS 0

TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP

TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER

TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN

TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS



Jefferson Community Park

Jefferson, OH

Penchura, LLC

Joe Kurtz

system type: Smart Play

24

<u>REQUIRED</u>

REQUIRED

REQUIRED 8

REQUIRED 24

DRAWING #: PEN1192780-01

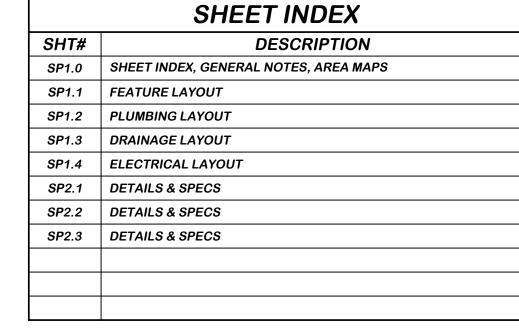




VERDANTAS SPLASH PAD

GENERAL NOTES:

- ALL MECHANICAL EQUIPMENT LOCATIONS ON THESE PLANS ARE FOR GRAPHICAL PURPOSES ONLY. FINAL LOCATIONS FOR
 LICENSED CONTRACTOR TO CONDUCT STATIC HYDRAULIC PRESSURE TEST. LINES SHALL WITHSTAND PRESSURE OF UP MECHANICAL EQUIPMENT, PIPING & CONDUITS, ETC. ARE TO BE DETERMINED IN THE FIELD.
- ALL PLUMBING AND ELECTRICAL WORK TO BE DONE PER LOCAL AND NATIONAL CODES
- WATER VELOCITY NOT TO EXCEED 20 FPS, OR 6.2' IN HEIGHT
- ALL NOZZLE OPENINGS NOT TO EXCEED 5/16"
- MAXIMUM SIZE FOR DRAIN GRATE OPENINGS IS 5/16"
- CLIENT TO PROVIDE SITE READY CONSTRUCTION AREA FREE FROM DEBRIS AND OBSTRUCTIONS
- MINIMUM ELECTRICAL SERVICE FOR PUMP(S), CONTROLLER(S), ACTIVATOR(S), TIMER(S) PROVIDED BY OTHERS AND BROUGHT TO AN ACCESSIBLE LOCATION FOR SPLASH ZONE UTILIZATION
- PIPING AND PIPE FITTINGS TO BE CONSTRUCTED OF SCH 40 PVC AND PASS PRESSURE TEST EQUAL TO 150% OF NORMAL OPERATING PRESSURE
- TO 25 POUNDS PER SQUARE INCH FOR A MINIMUM OF 30 MINUTES. THE TEST SHALL BE PERFORMED BEFORE ANY
- PIPING SYSTEM SHALL BE IDENTIFIED BY COLOR, STENCILS, OR LABELS LOCATED AT CONSPICUOUS POINTS
- ALL PLASTIC WATER CIRCULATION PIPES, TANKS AND EQUIPMENT TO COMPLY WITH AMERICAN NATIONAL STANDARD/NSF INTERNATIONAL STANDARD NUMBER 14
- BATHING. RESTROOM AND CHANGING FACILITIES MET BY EXISTING ON-SITE FACILITIES
- SPLASH PAD IS DESIGNED FOR DAYTIME USE ONLY; NO ADDITIONAL SITE LIGHTING REQUIRED
- SIGNAGE STATING SPLASH PAD RULES, OPERATIONAL HOURS, AND EMERGENCY CONTACT INFORMATION TO BE POSTED IN PLAIN SIGHT IN LETTERS AT LEAST 2" HIGH ON A CONTRASTING BACKGROUND



PROJECT INFORMATION

PAD INFORMATION

• SPLASH PAD SIZE (WET) 916 SQ. FT.

 SPLASH PAD DRY ZONE 1073 SQ. FT. TOTAL SPLASH PAD SIZE . 1989 SQ. FT.

 SPLASH PAD FINISH .. **BROOM FINISH CONCRETE**

MECHANICAL INFORMATION

FEATURE PUMP	MAX. FLOW RATE	ACTIVE FLOW RATE
PENTAIR WHISPERFLO 5HP XF VS	290 GPM	220 GPM

RECIRCULATION INFORMATION (PENTAIR INTELLIFLO VSF 3HP)

• MAX. PUMP FLOW RATE** 180 GPM

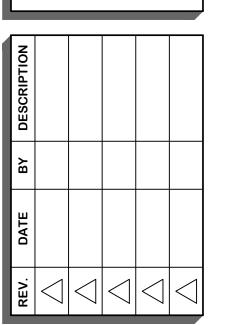
• TOTAL FILTER CAPACITY 155 GPM

• CISTERN CAPACITY 2500 GALLONS

• TURNOVER RATE 14 MINUTES

IN-GROUND FEATURES RUN SEQUENTIALLY. AT ANY GIVEN TIME DURING SPLASH PAD OPERATION, A MAXIMUM OF 25% OF THE IN-GROUND NOZZLES ARE ACTIVE. ABOVE-GROUND FEATURES RUN CONTINUOUSLY THROUGHOUT THE OPERATION OF THE SPLASH PAD, UNLESS OTHERWISE NOTED. BALL VALVES LOCATED ON FEATURE MANIFOLD ARE ADJUSTED TO BALANCE THE PUMP CAPACITIES WITH FEATURE CAPACITIES.

FLOW CURVES FOR ALL PUMPS LOCATED ON SP2 SHEETS

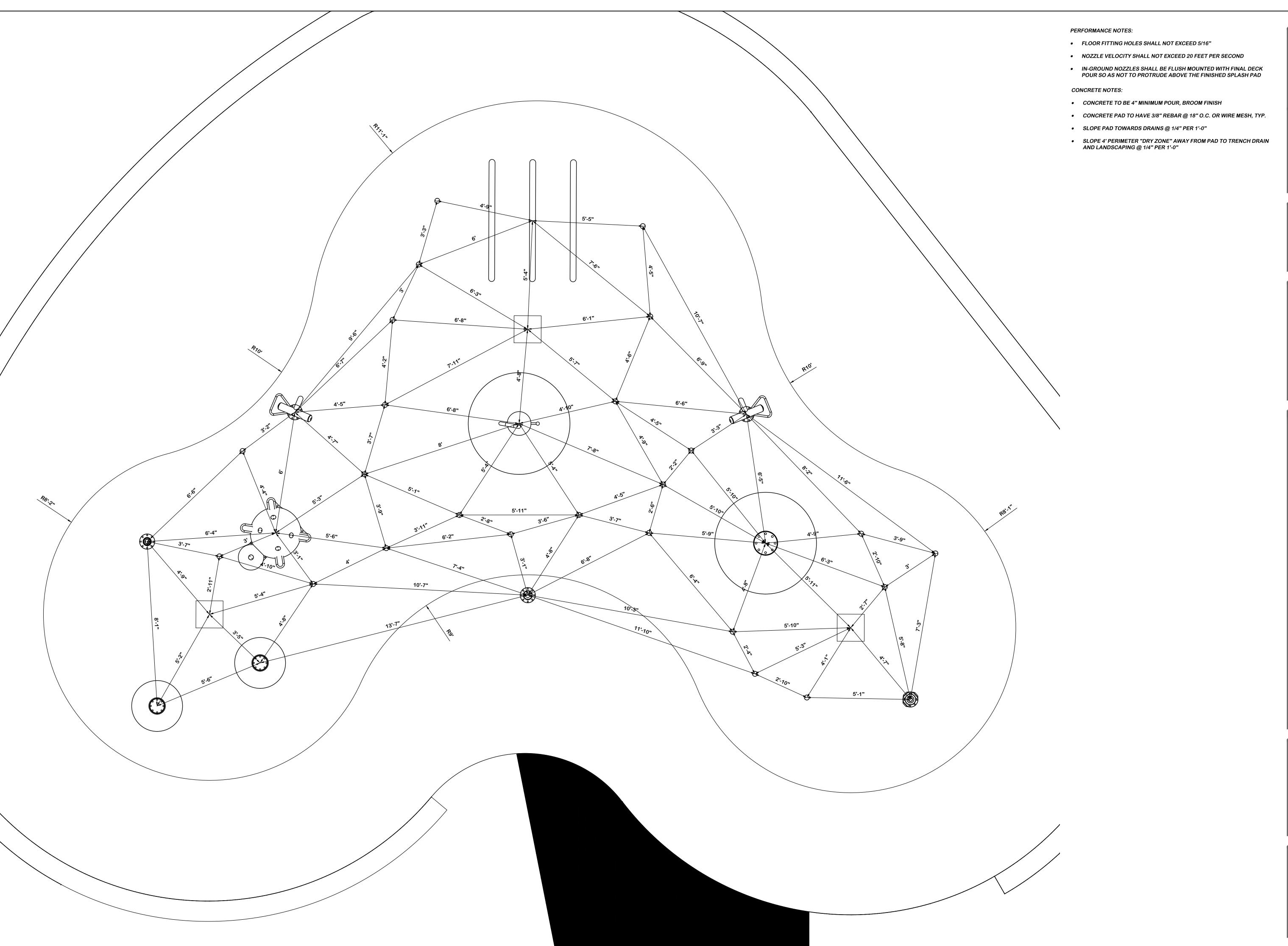


32275

NOT FOR COSTRUCTION CONTRACTOR SHALL OBTAIN FINAL STATE APPROVED SPLASH PAD DOCUMENTS PRIOR TO CONSTRUCTION

AERIAL MAP

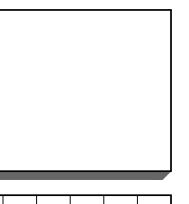
SCALE: 1" = 20'

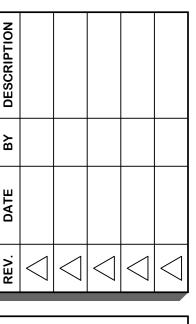


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PARAPPRODUCT & DESIGN DECK
SPLASH PAD PRODUCT & DESIGN DECK, AZ 85142

Ph. 888.445.RAIN Fax. 866.869.3942
info@raindeck.com





T SCALE: 1/2"=1'-0"

VERDANTAS SPLASH PAD FEATURE LAYOUT

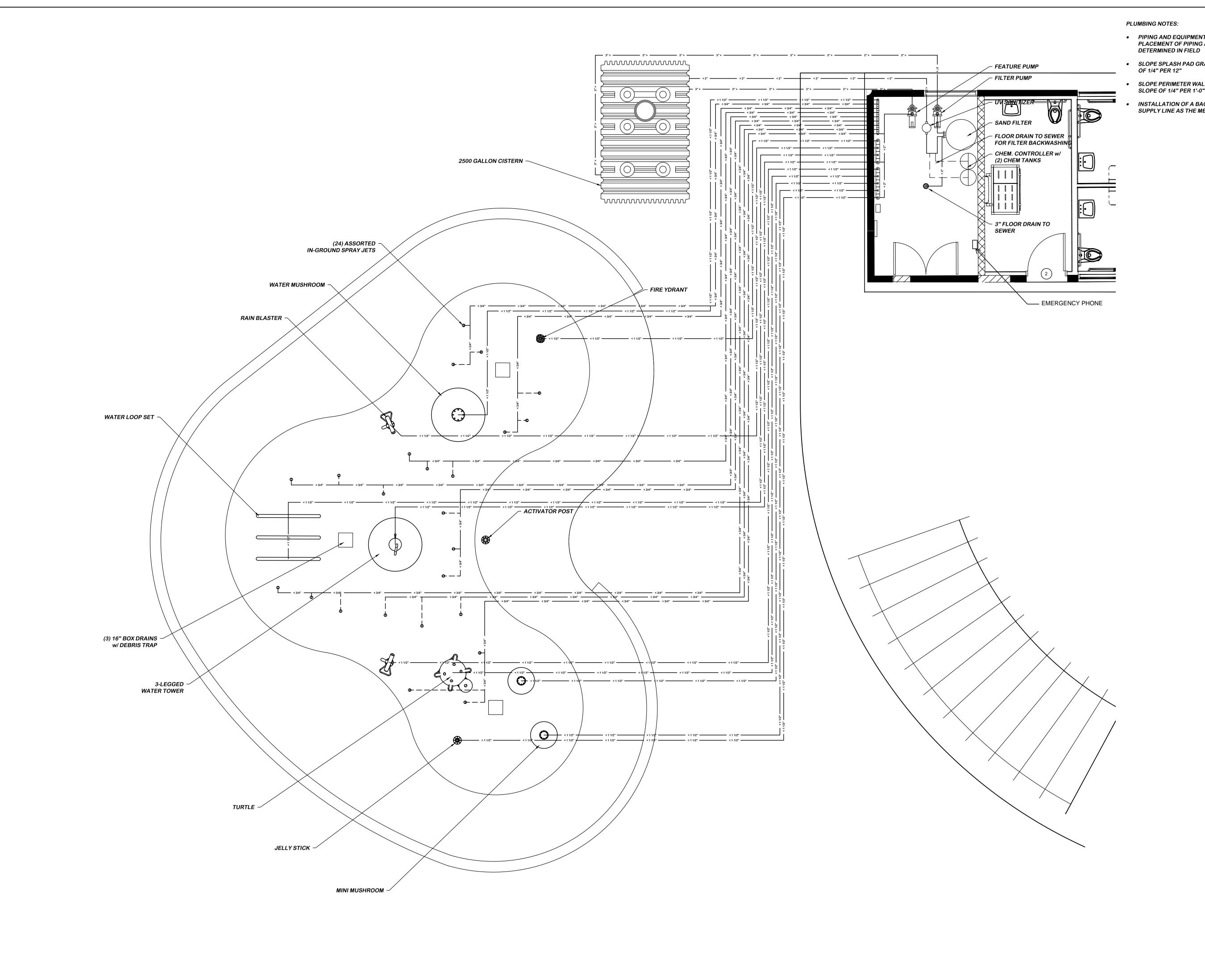
DATE

DRAWN BY REVIEWED BY LB

DATE MAY, 2025

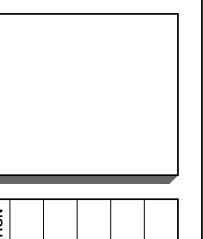
SHEET SP1.1

JOB NUMBER
32275



- PIPING AND EQUIPMENT LOCATION IS DIAGRAMMATIC. ACTUAL
 PLACEMENT OF PIPING AND MECHANICAL EQUIPMENT TO BE
 DETERMINED IN FIELD.
- SLOPE SPLASH PAD GRADING TOWARDS DRAIN AT A MAXIMUM SLOPE
 OF 1/4" PER 12"
- SLOPE PERIMETER WALKWAY AWAY FROM SPLASH PAD AT A MINIMUM
- SLOPE PERIMETER WALKWAY AWAY FROM SPLASH PAD AT A MINIMUM SLOPE OF 1/4" PER 1'-0"
- INSTALLATION OF A BACKFLOW PREVENTER REQUIRED ON WATER SUPPLY LINE AS THE METHOD OF CROSS CONNECTION CONTROL

Ph. 888.445.RAIN Fax. 866.869.3942



DESCRIPTION				
ВУ				
DATE				
REV.	\triangleleft	\bigcirc	\triangleleft	

AYOUT SCALE: 1/4

VERDANTAS SPLASH PAD

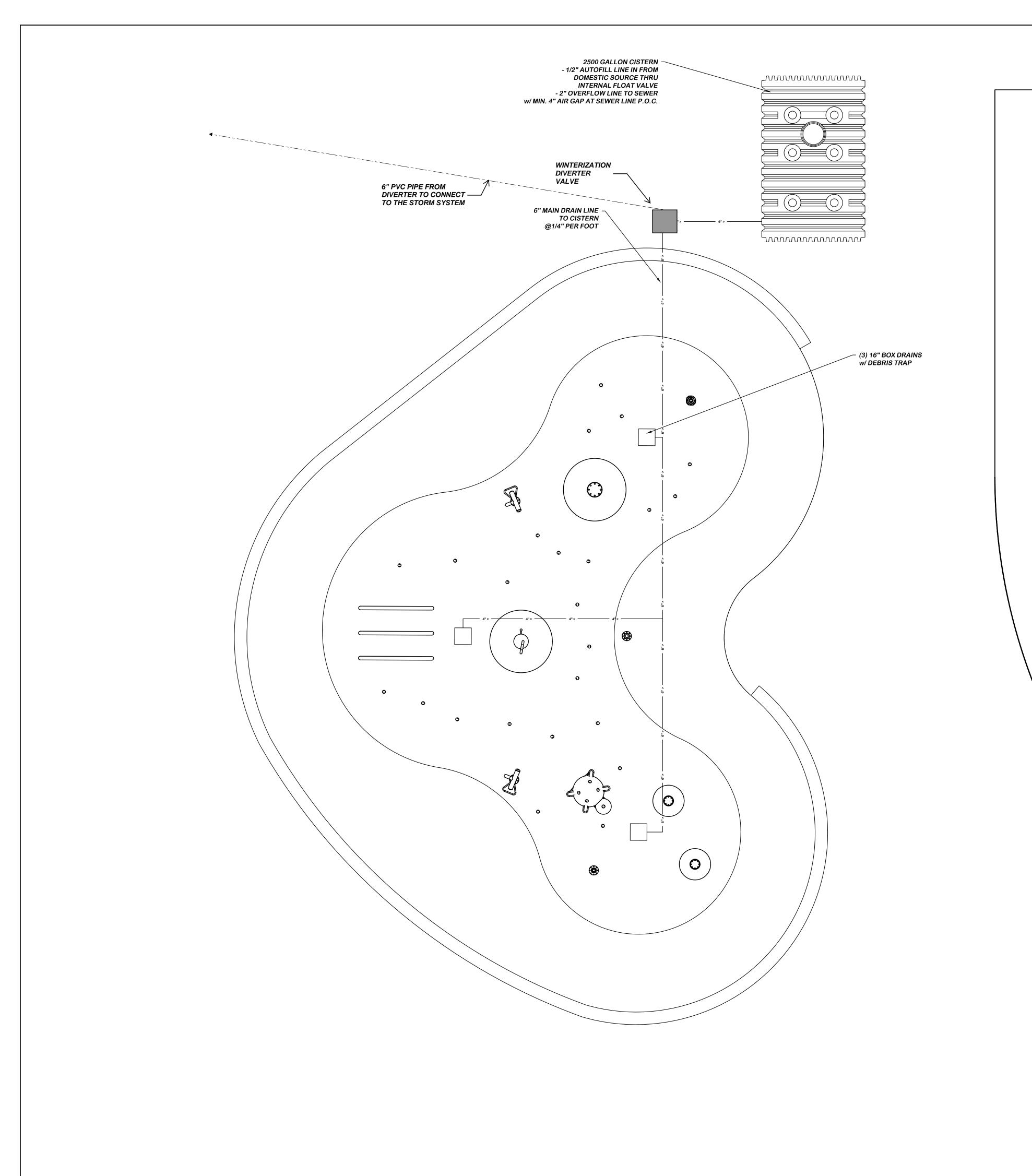
SEAL

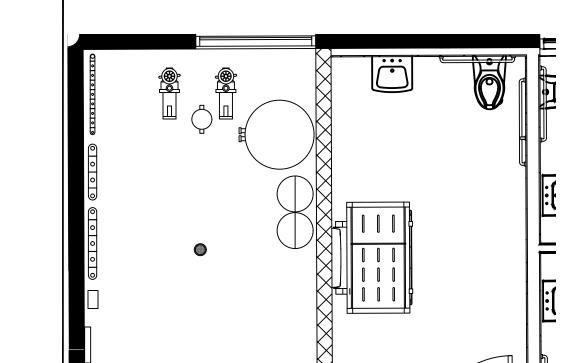
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DATE MAY, 2025

SHEET SP1.2

JOB NUMBER
32275

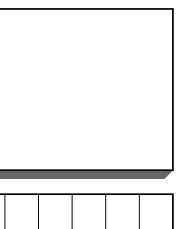


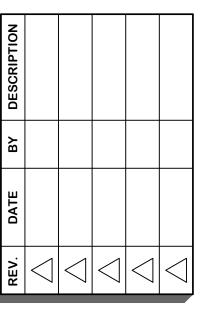


DRAINAGE NOTES:

- DRAIN LINES SLOPE @ 1/4" PER 1'-0" TO TANK
- SLOPE 2" OVERFLOW LINE FROM TANK TO RETENTION AREA @ 1/4" PER
 1'-0"
- MINIMUM 4" AIR GAP REQUIRED ON OVERFLOW LINE AT RETENTION AREA
- EXPOSED END OF 2" OVERFLOW LINE TO BE HOUSED IN AN IRRIGATION BOX TO AVOID DAMAGE

PLASH PAD PRODUCT & DESIGN DECK
20835 S. ELLSWORTH RD
QUEEN CREEK, AZ 85142
Ph. 888.445.RAIN Fax. 866.869.3942
info@raindeck.com





UT SCALE: 1/4"=

WAGE LAYOL

SEAL

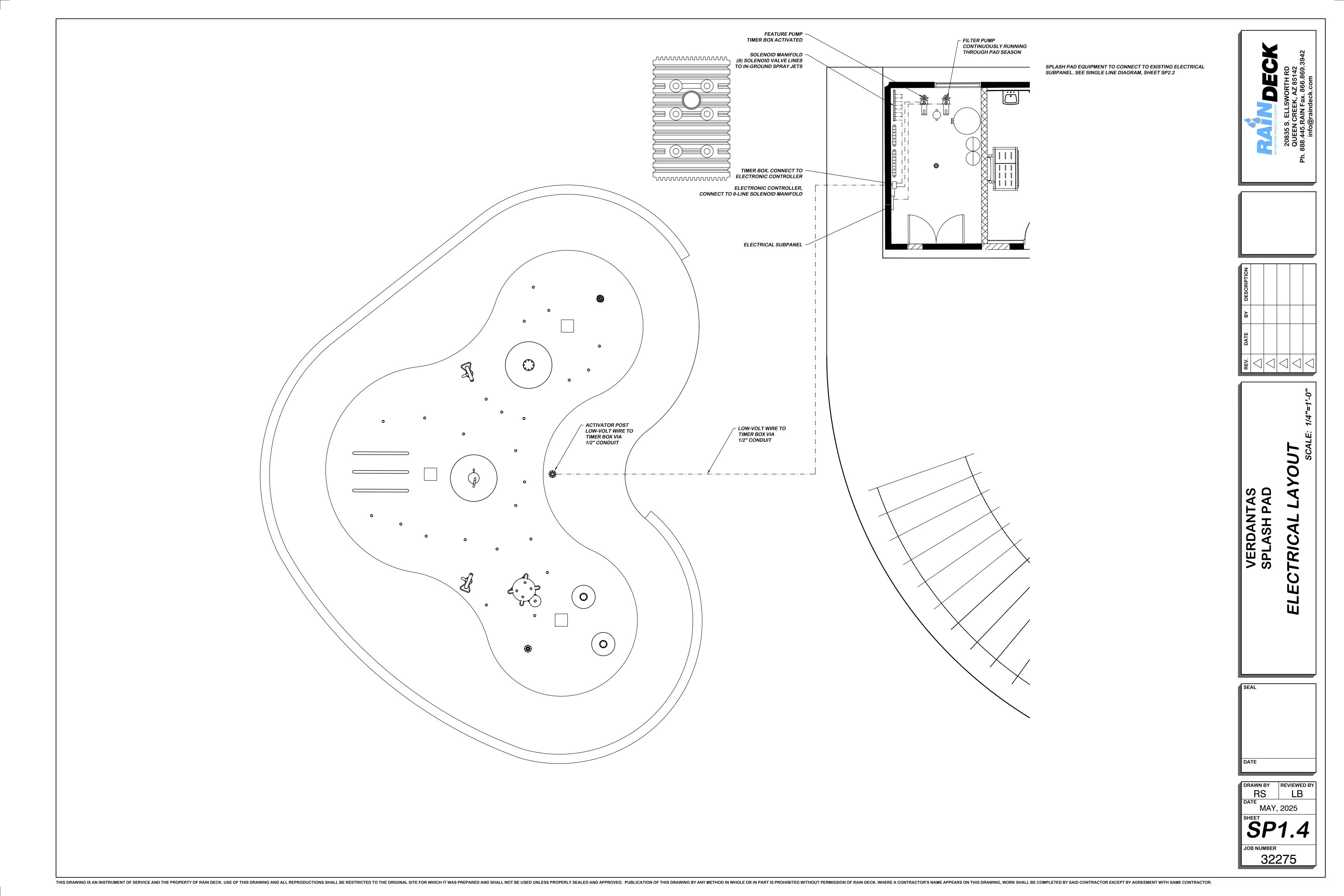
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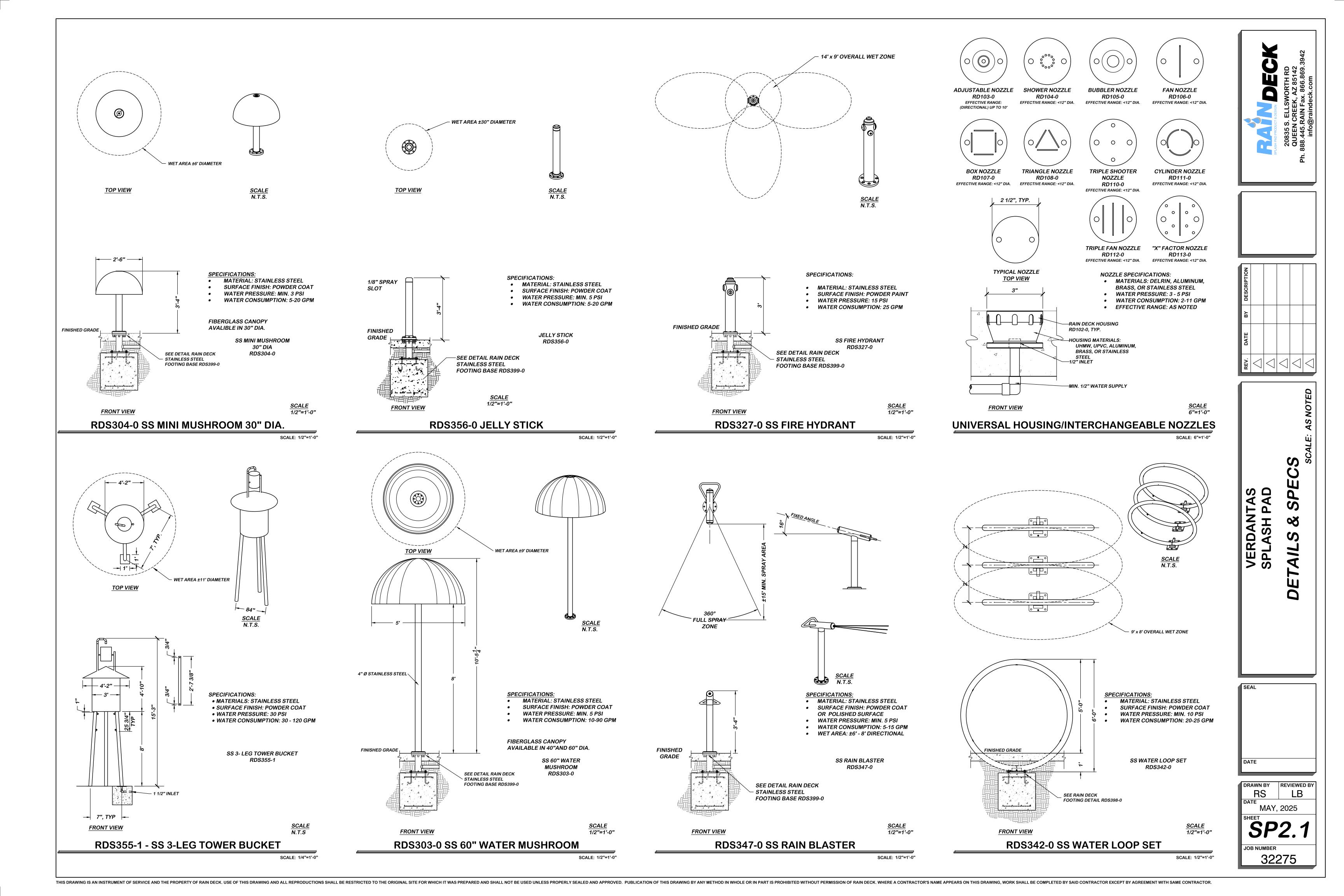
DATE MAY, 2025

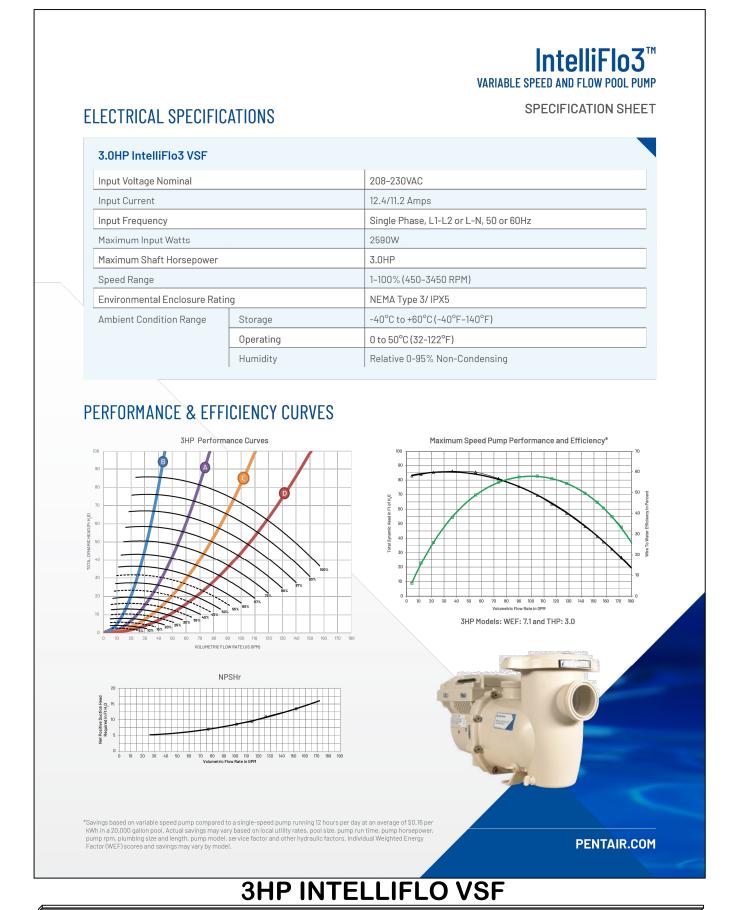
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JOB NUMBER 32275

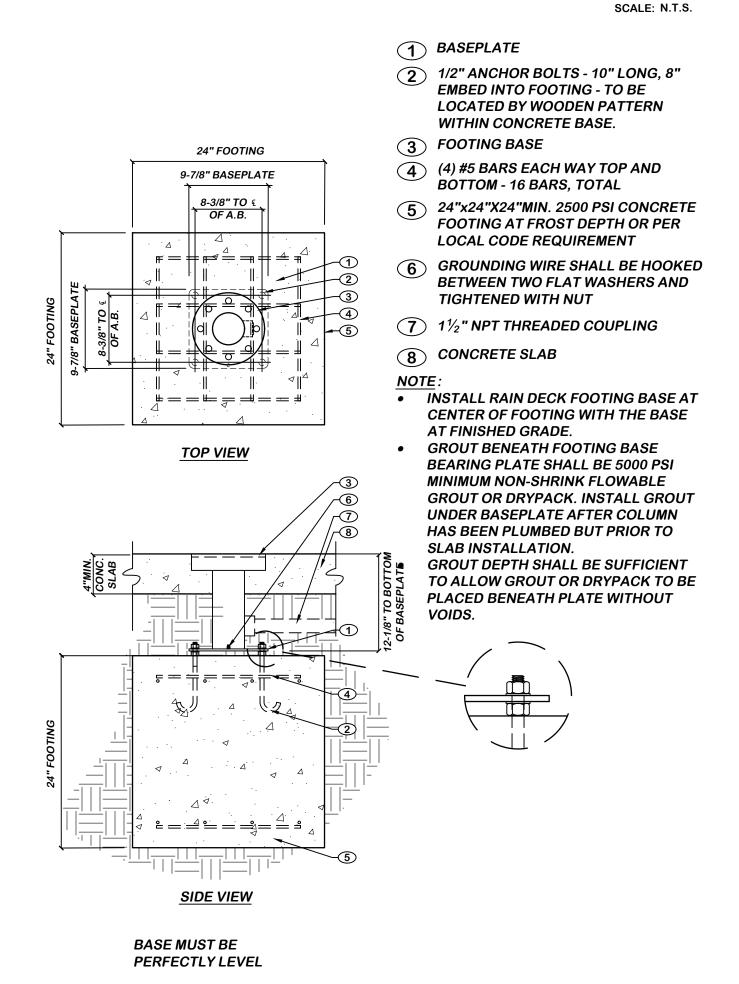
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF RAIN DECK. USE OF THIS DRAWING AND ALL REPRODUCTIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH IT WAS PREPARED AND SHALL NOT BE USED UNLESS PROPERLY SEALED AND APPROVED. PUBLICATION OF THIS DRAWING, WORK SHALL BE COMPLETED BY SAID CONTRACTOR EXCEPT BY AGREEMENT WITH SAME CONTRACTOR.







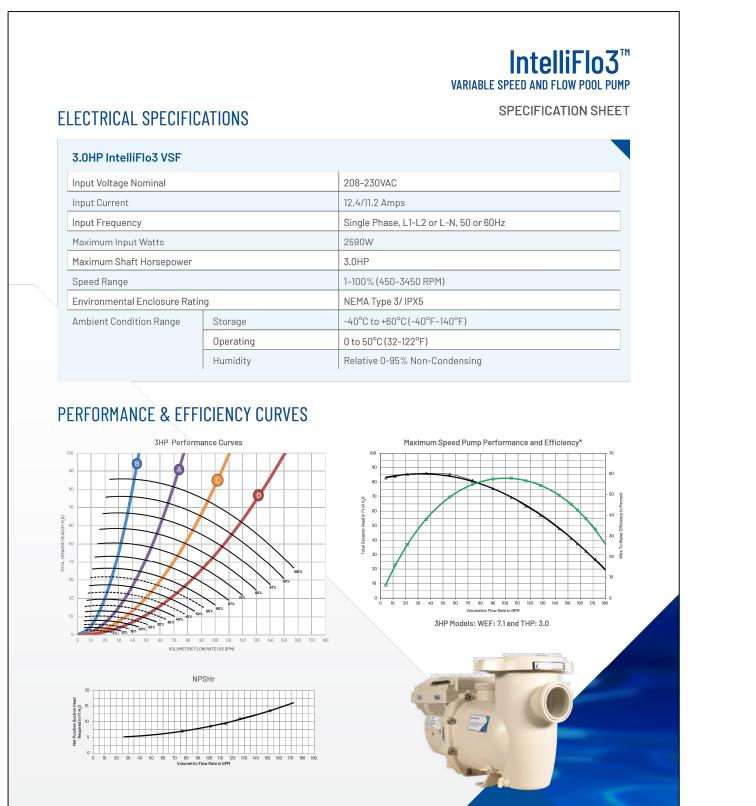
RDS398-0 RAIN DECK FOOTING



• STAINLESS STEEL BOLTS AND GASKET SPECIFICATIONS: • MATERIAL: STAINLESS STEEL w/ DELRIN **ACTIVATOR** • SURFACE FINISH: POWDER COAT • WIDTH: 4-1/2" O.D. SS PIPE • HEIGHT: 40" (FROM FINISHED GRADE -CUSTOM SIZES AVAILABLE) **FINISHED** SS SOF-TOUCH ACTIVATOR GRADE RDS550-0 -SEE DETAIL RAIN DECK STAINLESS STEEL **FOOTING BASE RDS399-0** <u>SCALE</u> 1/2"=1'-0" **FRONT VIEW**

RDS550-0 SoF-TOUCH ACTIVATOR

SCALE: 1/2"=1'-0"



• MANUFACTURES SPECIFICATIONS SHALL 2) 1/2" ANCHOR BOLTS - 10" BE FOLLOWED AND HARDWARE LONG, 8" EMBED INTO PROVIDED SHALL BE USED UNLESS **FOOTING - TO BE LOCATED BY** SPECIFIED OTHERWISE **WOODEN PATTERN WITHIN** GROUT BENEATH FOOTING BASE CONCRETE BASE. BEARING PLATE SHALL BE 5000 PSI

12" BASEPLATE 9" TO € OF A.B.

TOP VIEW

SIDE VIEW

MINIMUM NON-SHRINK FLOWABLE GROUT

OR DRYPACK. INSTALL GROUT UNDER

BASE PLATE AFTER COLUMN HAS BEEN

GROUT DEPTH SHALL BE SUFFICIENT TO

SCALE N.T.S.

ALLOW GROUT OR DRYPACK TO BE

PLACED BENEATH PLATE WITHOUT

PLUMBED BUT PRIOR TO SLAB

INSTALLATION.

- **3** RAIN DECK FEATURE (4) #5 BARS EACH WAY TOP
- AND BOTTOM **5)** 24"x24"X24"MIN. CONCRETE BASE BELOW FROST DEPTH OR LOCAL CODE **6** GROUNDING WIRE SHALL BE

12" BASEPLATE

TOP VIEW

SIDE VIEW

WATER LINE (NOT SUPPLIED)

- **HOOKED BETWEEN TWO** FLAT WASHERS AND TIGHTENED WITH NUT \bigcirc 1\(^{1}\)2" NPT THREADED
- COUPLING

SCALE: N.T.S.

8 CONCRETE SLAB

SCALE N.T.S. **TOP VIEW WET AREA ±16' DIAMETER**

- (5) BRASS NOZZLES CONNECT TO FEATURE PLUMBING -CAN ALSO BE ATTACHED TO A RD FOOTING BASE w/ FLANGE CONNECTOR, SOLD SEPERATELY 1" SUPPLY LINE

FRONT VIEW

TOP VIEW

SPECIFICATIONS: MATERIAL: FIBERGLASS w/ BRASS NOZZLES SURFACE FINISH: UV RESISTANT

- **AUTOMOTIVE PAINT** • WATER PRESSURE: MIN. 10 PSI WATER CONSUMPTION: 7-8 GPM • EFFECTIVE RANGE: 16' DIA.
 - TURTLE RDG300-0

SCALE N.T.S.

RDG300-0 TURTLE

SCALE: 1/2"=1'-0"

INCLUDES:

 SOF-TOUCH POST MOUNTED **ACTIVATOR** • PROXIMITY SENSOR • RAIN DECK SS FOOTING BASE w/ CAP

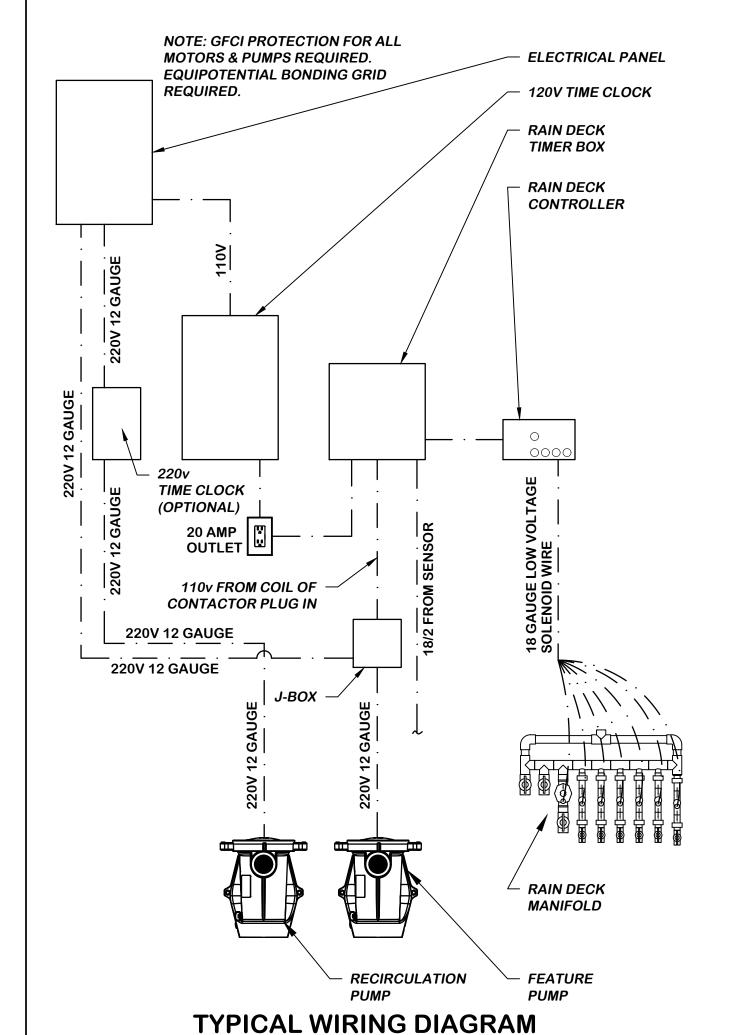
REVIEWED BY DRAWN BY LB MAY, 2025

DATE

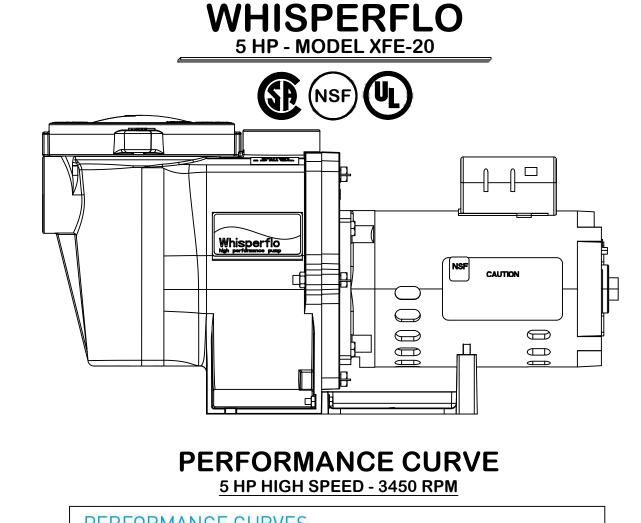
O

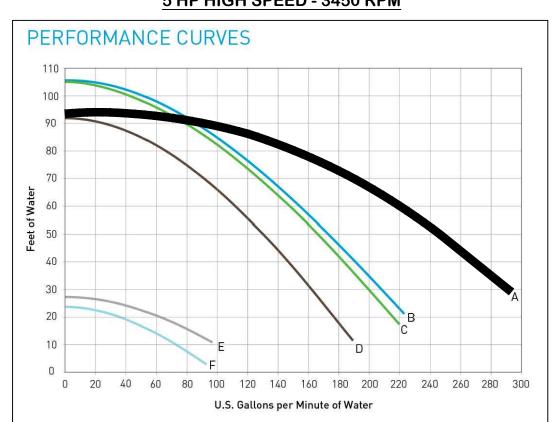
VERDANT SPLASH F

JOB NUMBER 32275



SCALE: N.T.S.





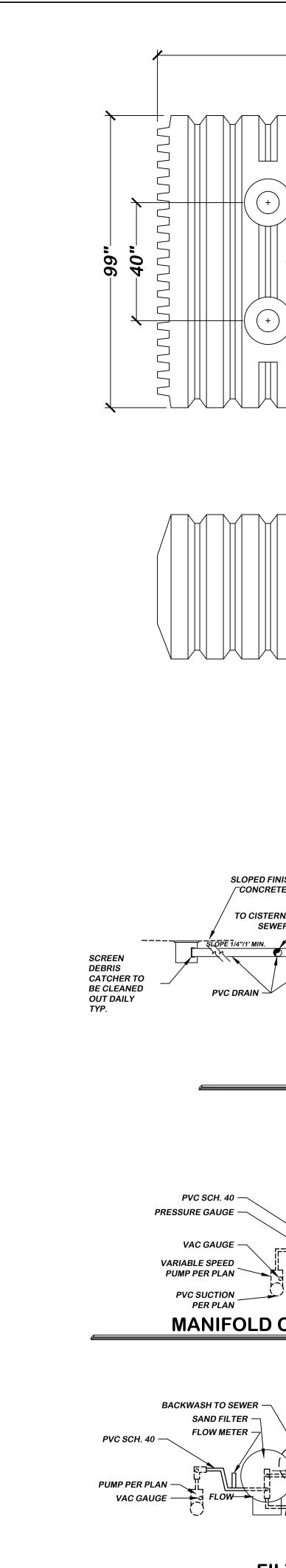
WHISPERFLO HIGH PERFORMANCE PUMP

RDS399-0 STEEL FOOTING BASE

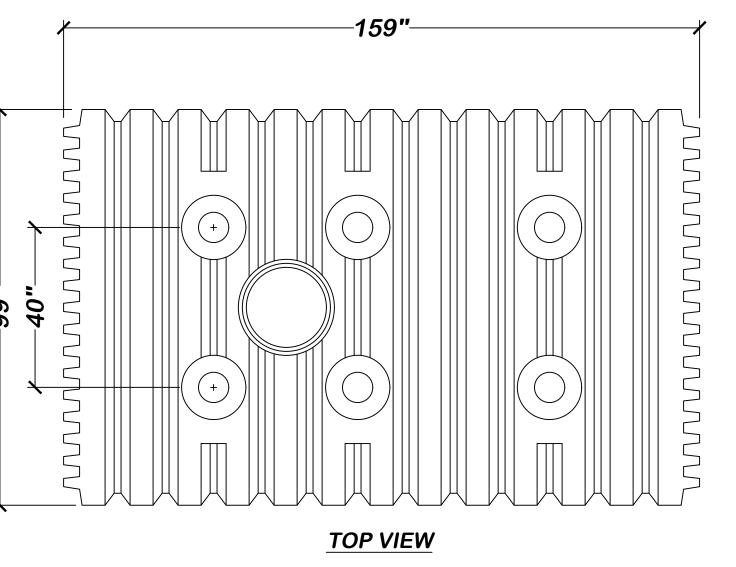
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SCALE N.T.S.

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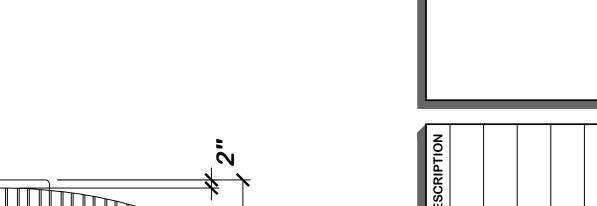
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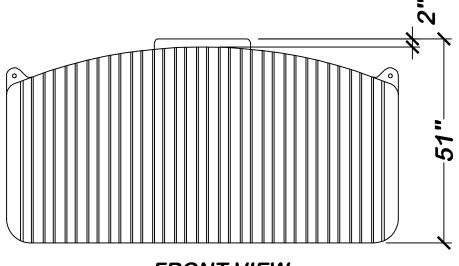


SIDE VIEW

SPECIFICATIONS:

- MATERIAL: POLYPROPYLENE
- WATER CAPACITY: 2,500 GALLONS
- NSF CERTIFIED STANDARD 61

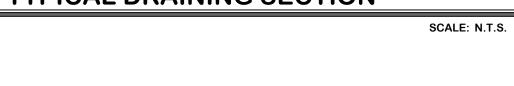


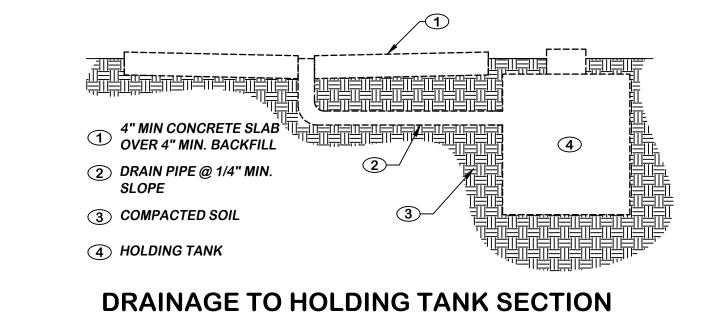


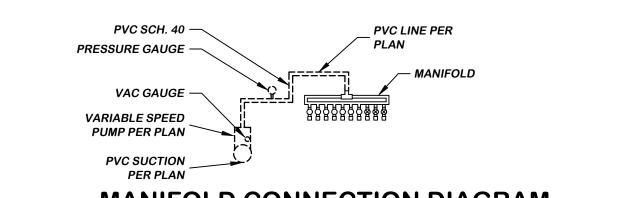
FRONT VIEW

NORWESCO 2500 GALLON CISTERN

SCALE: 1/2"=1'-0" 2" OVERFLOW 1/2" PVC SCH 40 AUTO FILL LINE TO COME SLOPED FINISH DRAIN TO / CONCRETE FROM A BACKFLOW PREVENTER SEWER TO CISTERN/ PENETRATION 3"-6" ABOVE FILL LINE, TYP. **PVC DRAIN SLOPED** 1/4" PER FOOT FROM -- MAINTAIN MIN. 6" GAP BELOW OVERFLOW PIPE INTERCEPTOR RECIRCULATION PUMP - PVC SCH 40 3" SUCTION LINE* _ RECIRCULATION PUMP - PVC SCH 40 3" RETURN* FEATURE PUMP -*SUCTION AND RETURN LINES TO BE LOCATED RESERVOIR TANK — PVC SCH 40 3" SUCTION* WITHIN 6" FROM BOTTOM OF TANK, TYP TYPICAL DRAINING SECTION

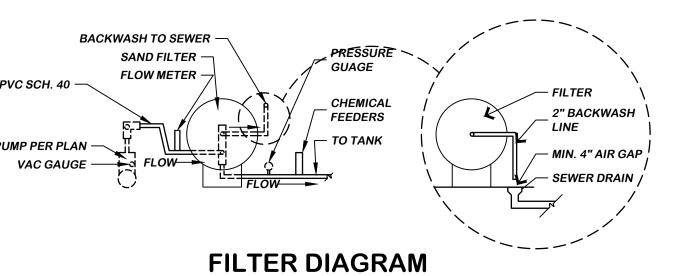






MANIFOLD CONNECTION DIAGRAM

SCALE: N.T.S.



REBAR @ 18" O.C. OVER 4" MIN. BACKFILL 2 TO DRAIN @ 1/4" SLOPE

4' MIN. SIDEWALK WHERE REQ'D

4' MIN. SIDEWALK WHERE REQ'D

2

2

3

MIN. 4" THICK 2500 PSI CONCRETE SLAB w/#3

TYPICAL SPLASH PAD SECTION

SCALE: N.T.S.

SCALE: N.T.S.

(3) DRAINING TO HOLDING TANK

SLOPE AWAY FROM PAD @ 1/4" SLOPE

ECS SCALE: AS NOTED

VERDANTAS SPLASH PAD DETAILS & SPEC

SEAL

DATE

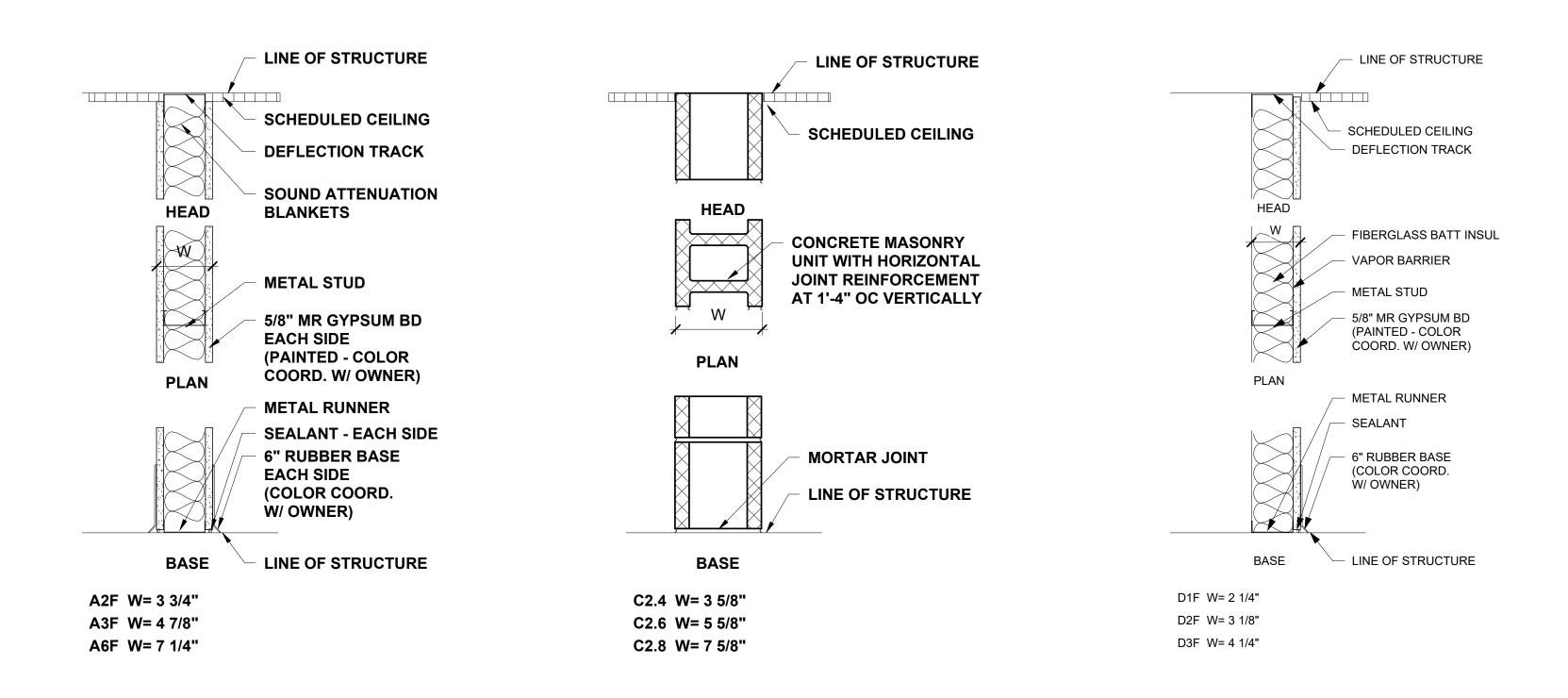
DRAWN BY REVIEWED BY LB

DATE MAY, 2025

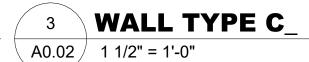
SHEET SP2.3

JOB NUMBER
32275

	DRAWING ABBREVIATIONS							REFERENCE SYMBOLS	DRAWING SYMBOLS	MINIMAL PROPERTY OF STATE OF S
ABV ACT ADDJ TAFF GS GU BAR ALL TIME TO THE ABOUT AND ADDJ TAFF GS GU BAR ALL TIME TO THE AFF GO	ARCHITECT AUXILIARY AUDIO / VISUAL AVERAGE BOTTOM OF BACK TO BACK BOTTOM OF FOOTING BOARD BOUNDARY BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION BUILDING BLOCKING BOTTOM OF STEEL BOTTOM BASE PLATE BEARING BRICK BRACKET BASEMENT BETWEEN BUILT-UP ROOFING BOTH WAYS CABINET CATCH BASIN CLOSED CIRCUIT TV CONSTRUCTION DOCUMENTS CARD READER CEMENT CERAMIC CONTRACTOR FURNISHED /CONTRACTOR /CONTRAC	AFFS BJSLEEBER GENT /CFMSADNEC E STEFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	EACH EACH FACE EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION BOLT EXPANSION JOINT EACH SIDE ELEVATION ELECTRIC ELEVATOR EMERGENCY EXPANDED POLYSTYRENE BOARD (INSULATION) EQUAL ELECTRIC WATER COOLER EXPOSED EXTERIOR, EXTINGUISHER FACE OF FACE OF CONCRTETE FACE TO FACE, FLOOR TO FLOOR FACE OF MASONRY FACE OF STUDS FIRE ALARM FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FIXTURE, FURNISHING & EQUIPMENT FIBERGLASS FIRE HOSE CABINET FIRE HOSE CABINET FIRE HOSE RACK FINISH FLOOR FACTORY MUTUAL FIRE PROOFING FACTORY MUTUAL FIRE PROOFING FACTORY MUTUAL FIRE PROOFING FACTORY MUTUAL FIRE PROOFING FARME FOOTING FUTURE FOOTING GURENAL CONTRACTOR GENERAL GENERATOR GOVERNMENT FURNISHED INSTALLED BY GOVERNMENT GLASS GRADE GRADE BEAM GROUND GUTTER GYPSUM BOARD HIGH HOSE BIBB HANDICAPPED HAND DRIER HEADER HARDWARE HOLLOW METAL HORSE DIAMETER HEADER HARDWARE HOLLOW METAL HORSE DIAMETER HEADER HARDWARE HOLLOW METAL HORSE DIAMETER HEATER HEATER HEATER HEATER HEATER HEATING, VENTILLATING, & AIR CONDITIONING HARDWOOD INTERNATIONAL BUILDING CODE INSIDE DIAMETER IN LIEU OF INCH INFORMATION INSULLATION	LATE LATE LAVE LAVE	LAMINATE LAVATORY LUMBER POUND LINEAR FEET (FOOT) LEFT HAND LINEAR LOCKER LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION LOW POINT LIGHT LIGHT WEIGHT LOUVER METER MAINTENANCE MASONRY MATERIAL MAXIMUM MECHANICAL MEMBRANE MEZZANINE MANUFACTURER MINIMUM, MINUTE MISCELLANEOUS MILLIMETER MASONRY OPENING MODULAR, MODIFY MOVABLE MOISTURE RESISTANT MOUNTED METAL MULLION NOT APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERFLOW DRAIN OPPOSITE OPEN WEB STEEL JOIST OPERABLE OVERFLOW ROOF DRAIN ORIGINAL OUNCE PARAPET PATTERN PULL BOX PARTICLEBOARD POUNDS PER CUBIC FOOT PERCENT PERFORATED PERIMETER PHASE PROPERTY LINE PLASTIC LAMINATE PLASTIC PLUMBING PILING PLING PLYWOOD PANEL PAIR PRECAST PARKING PROPERTY, PROPOSED POUNDS PER SQUARE FOOT	RESURTED TO SERVICE TO	REQUIRED RESILIENT REVISED, REVISION ROOFING RIGHT HAND RIGHT HAND REVERSE ROOF LEADER RAILING ROOM ROUND ROUGH OPENING REVEAL SANITARY SPLASH BLOCK SCHEDULE SMOKE DETECTOR SQUARE FOOT (FEET) SINGLE SHOWER SHEATHING SHELVING SIMILAR SCORED JOINT SINK SLEEVE SHEET METAL SPECIFICATION SQUARE SQUARE INCH SQUARE YARD STAINLESS STEEL STAIRS SOUND TRANSMISSION CLASS STANDARD STEEL STORAGE STRUCTURAL SUBFLOOR SUPPLEMENTAL SIDEWALK, SHORT WAY SYMMETRICAL SYSTEM TREAD TOP & BOTTOM TONGUE & GROOVE TOP OF TOP OF BEAM TOP OF CONCRETE, TOP OF CURB TOP OF COLUMN TOP OF JOIST TOP OF JOIST TOP OF FOOTING TOP OF JOIST TOP OF STEEL TEST BORING TRENCH DRAIN TELEPHONE TEMPORARY TERRAZZO THICK TACKBOARD TOPOGRAPHY TELEVISION TYPICAL UNDERGROUND UNIT HEATER UNDERWRITERS LABORATORY UNFINISHED UNLESS NOTED OTHERWISE UNITED STATES GEOLOGICAL SURVEY VARIES VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VENT THRU ROOF VINYL WALL COVERING	SHEET NUMBER ON SHEET A.101 SHEET NUMBER WHERE ELEVATION IS DRAWN INTERIOR ELEVATION ELEVATION NUMBER ON SHEET SHEET NUMBER WHERE ELEVATION IS DRAWN EXTERIOR ELEVATION SECTION NUMBER ON SHEET SHEET NUMBER WHERE SECTION IS DRAWN SECTION DETAIL NUMBER ON SHEET SHEET NUMBER WHERE SECTION IS DRAWN DETAIL IS DRAWN DETAIL IS DRAWN DETAIL IS DRAWN DETAIL SPRENCE NUMBER OF PLAN, DETAIL IS DRAWN DETAIL SPRENCE OI / A2.10 DISCIPLINE: G-GENERAL G-CIVIL A-ARCHITECTURAL I-INTERIOR S-STRUCTURAL I-INTERIOR S-STRUCTURAL I-INTERIOR S-STRUCTURAL SHEET INDEX SHEET INDEX SHEET INDEX SHEET INDEX SHEET INDEX SHEET NUMBER A0.01 PARTITION TYPES A0.02 FLOOR PLANS A2.01 A2.01	ROOM NAME 101 DOOR NUMBER 101 WINDOW TYPE INTERIOR PARTITIONS DRAWING NOTE	AGE OF JEFFERSON CHECKED BY:
COMB COMM CONC CONF CONST CONT CONTR COORD CORR CPT CSWK CT	COMBINATION COMMUNICATION CONCRETE CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR COORDINATE CORRIDOR, CORRUGATED CARPET CASEWORK CERAMIC TILE	HP HT HTR HVAC HWD IBC ID ILO IN INFO INSUL	HIGH POINT HEIGHT HEATER HEATING, VENTILATING, & AIR CONDITIONING HARDWOOD INTERNATIONAL BUILDING CODE INSIDE DIAMETER IN LIEU OF INCH INFORMATION	PLAS PLBG PLYWD PNL PR PRCST PRKG PROP PSF	PROPERTY LINE PLASTIC LAMINATE PLASTER, PLASTIC PLUMBING PILING PLYWOOD PANEL PAIR PRECAST PARKING PROPERTY, PROPOSED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PAINT, POINT, PRESSURE TREATED PARTITION POWER QUARRY TILE QUANTITY RADIUS, RISER RESILIENT BASE REINFORCED BRICK MASONRY RUBBER REINFORCED CONCRETE REFLECTED CEILING PLAN ROOF DRAIN	VL UNF UNO USGS VAR VCT VERT VIF VTR VWC	UNDERWRITERS LABORATORY UNFINISHED UNLESS NOTED OTHERWISE UNITED STATES GEOLOGICAL SURVEY VARIES VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VENT THRU ROOF	SHEET INDEX SHEET INDEX Sheet Name Sheet Number ABBREVIATIONS & SYMBOLS PARTITION TYPES FLOOR PLANS A0.01 A0.02 A1.01	STATE: OHIO COUNTY: ASHTABULA CLIMATE ZONE AND MOISTURE DESIGNATION: 5A C402 PRESCRIPTIVE METHOD COMPLIANCE PATH SHALL BE USED IN THIS BUILDING TABLE C402.2 OPAQUE THERMAL ENVALOPE INSULATION COMPONENT MINIMUM REQUIREMENTS - R-VALUE METHOD ROOFS	ON COMMUNITY PA VILLAGE OF JEFFER 262 E JEFFERSON ABBREVIATIONS & S



WALL TYPE A_F A0.02 / 1 1/2" = 1'-0"





PARTITION NOTES

- "LINE OF STRUCTURE" AND "SCHEDULED CEILING" INDICATED ON PARTITION TYPES ARE DIAGRAMATIC AND DO NOT INDICATE **EXACT CONSTRUCTION CONDITIONS**
- PROVIDE MOISTURE-RESISTANT GYP BOARD AT ALL RESTROOM WALLS & CEILINGS
- NON-RATED PARTITIONS AND SMOKE PARTITIONS TO USE ACOUSTICAL SEALANT
- FOR PARTITIONS TO RECEIVE SOUND ATTENTUATION INSULATION, EXTEND INSULATION FULL HEIGHT OF PARTITION UNLESS INDICATED OTHERWISE. FLOOR TRACK TO BE SET IN CONTINUOUS BEAD OF SEALANT
 - Expiration Date 12/31/2025 FOR NON-RATED PARTITONS INDICATED TO RECEIVE SOUND
 - ATTENUATION, USE SOUND ATTENUATION BLANKETS (SAB) FOR FIRE RESISTANT RATED PARTITIONS INDICATED TO RÉCEIVE SOUND ATTENUATION. USE MINERAL WOOL SOUND ATTENUATION FIRE BLANKETS (SAFB)
 - PROVIDE FULL THICKNESS OF INSULÁTION IN ALL STUD BOX BEAMS AND HEADERS
 - PROVIDE BLOCKING IN PARTITIONS FOR ALL WALL SUPPORTED ITEMS. COORDINATE WITH OWNER FOR TYPE, SIZE, AND LOCATION REQUIREMENTS OF OWNER FURNISHED ITEMS
- CLEAN INSIDE OF ALL STUD CAVITIES BEFORE ENCLOSING WALL PROVIDE LINTELS AT ALL MASONRY OPENINGS, AND AT HEAD OF DOORS, WINDOWS, ALUMINUM STOREFRONT, ETC
- UNLESS NOTED OTHERWISE PER SCHEDULE BELOW, ALL METAL STUDS TO BE 33 MIL (20 GA.) STUDS AT 24" O.C. BRACE THE FULL HEIGHT STUD FROM 17'-0" ABOVE FINISHED FLOOR BACK TO STRUCTURE ABOVE EVERY 48".

INTERIOR PARTITION METAL FRAMING LIMITING HEIGHTS HEIGHTS LISTED BELOW ARE FOR UNBRACED LENGTHS

FOR 3-5/8" METAL STUDS PROVIDE THE FOLLOWING:

- UP TO 10'-0" HIGH UTILIZE 18 MIL (25 GAUGE) STUDS @ 24" O.C.
- BETWEEN 10'-0" HIGH AND 15'-0" HIGH UTILIZE 33 MIL (20 GAUGE) STUDS @ 24" O.C.
- BETWEEN 15'-0" HIGH AND 20'-0" HIGH UTILIZE 54 MIL (16 GAUGE) STUDS @ 24" 0.C.

FOR 6" METAL STUDS PROVIDE THE FOLLOWING:

- UP TO 20'-0" HIGH UTILIZE 30 MIL (20 GAUGE DRYWALL) STUDS @ L
- BETWEEN 20'-0" HIGH AND 30'-0" HIGH UTILIZE 54 MIL (16 GAUGE) STUDS @ 24" O.C.

FOR 8" METAL STUDS PROVIDE THE FOLLOWING:

• UP TO 30'-0" HIGH UTILIZE 43 MIL (18 GAUGE) STUDS @ 24" O.C. BETWEEN 30'-0" HIGH AND 40'-0" HIGH UTILIZE 54 MIL (16 GAUGE) STUDS @ 24" O.C.

FOR PARTITIONS WITH TILE PROVIDE THE FOLLOWING: • 33 MIL (20 GAUGE) STUDS @ 16" O.C.

PARTITION TYPE LEGEND

A3F **2A3** FIRE RATING-TYPE WIDTH TYPE HEIGHT RATED WALLS

NON-RATED WALLS

WIDTH HEIGHT **F** FULL HEIGHT TO STRUCTURE ABOVE **1** 1 5/8" METAL STUD

2 2 1/2" METAL STUD **C** 4" ABOVE FINISH CEILING

P PARTIAL HEIGHT AS INDICATED **3** 3 5/8" METAL STUD

4 4" METAL STUD, 4" CMU

6 6" METAL STUD, 6" CMU **FIRE RATING** 7 7/8" METAL HAT CHANNELS **1** 1 HOUR

8 8" CMU

2 2 HOUR

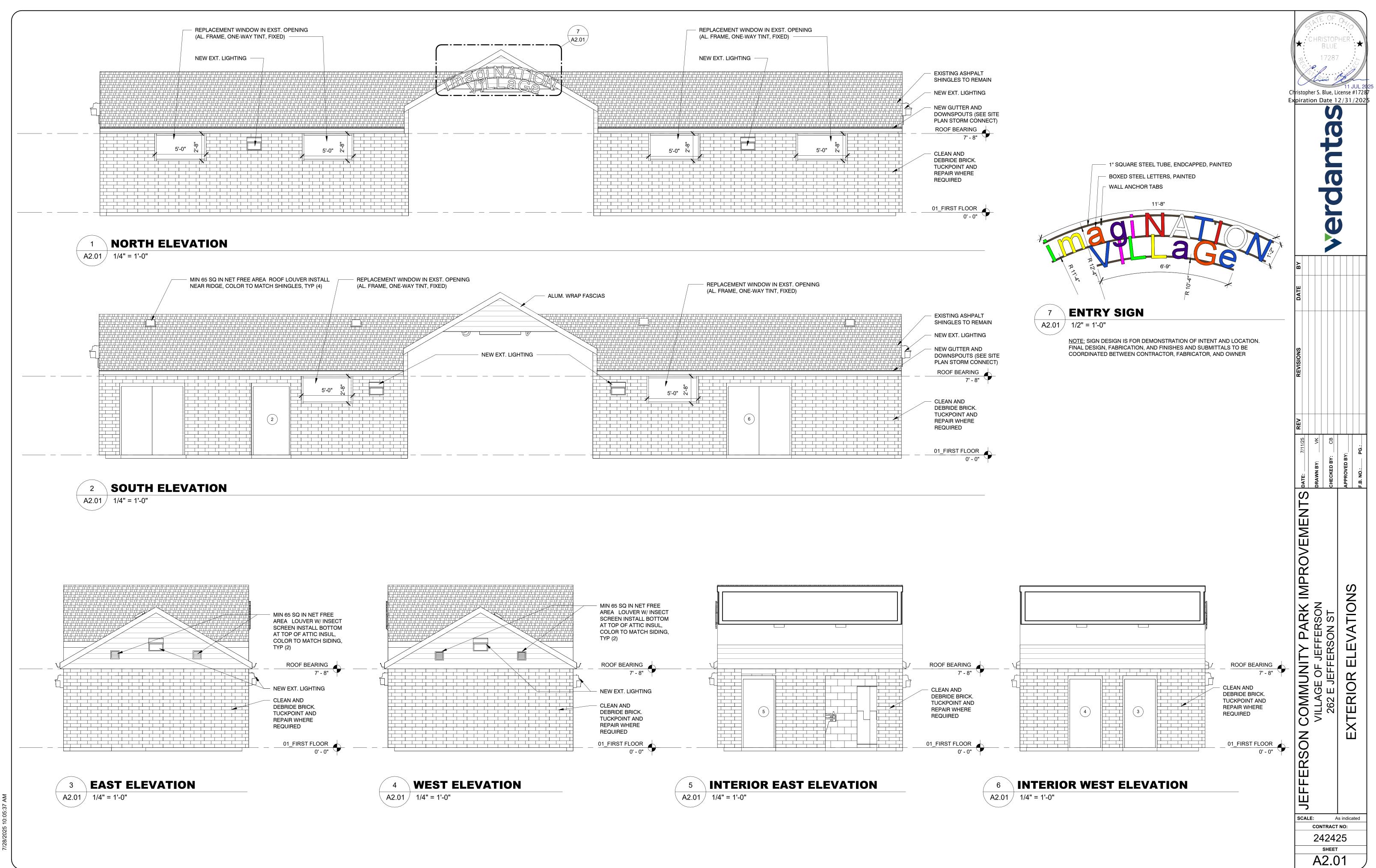
IMPROVEMENT I COMMUNITY PARK II VILLAGE OF JEFFERSON 262 E JEFFERSON ST **PARTITION** SCALE: As indicated CONTRACT NO:

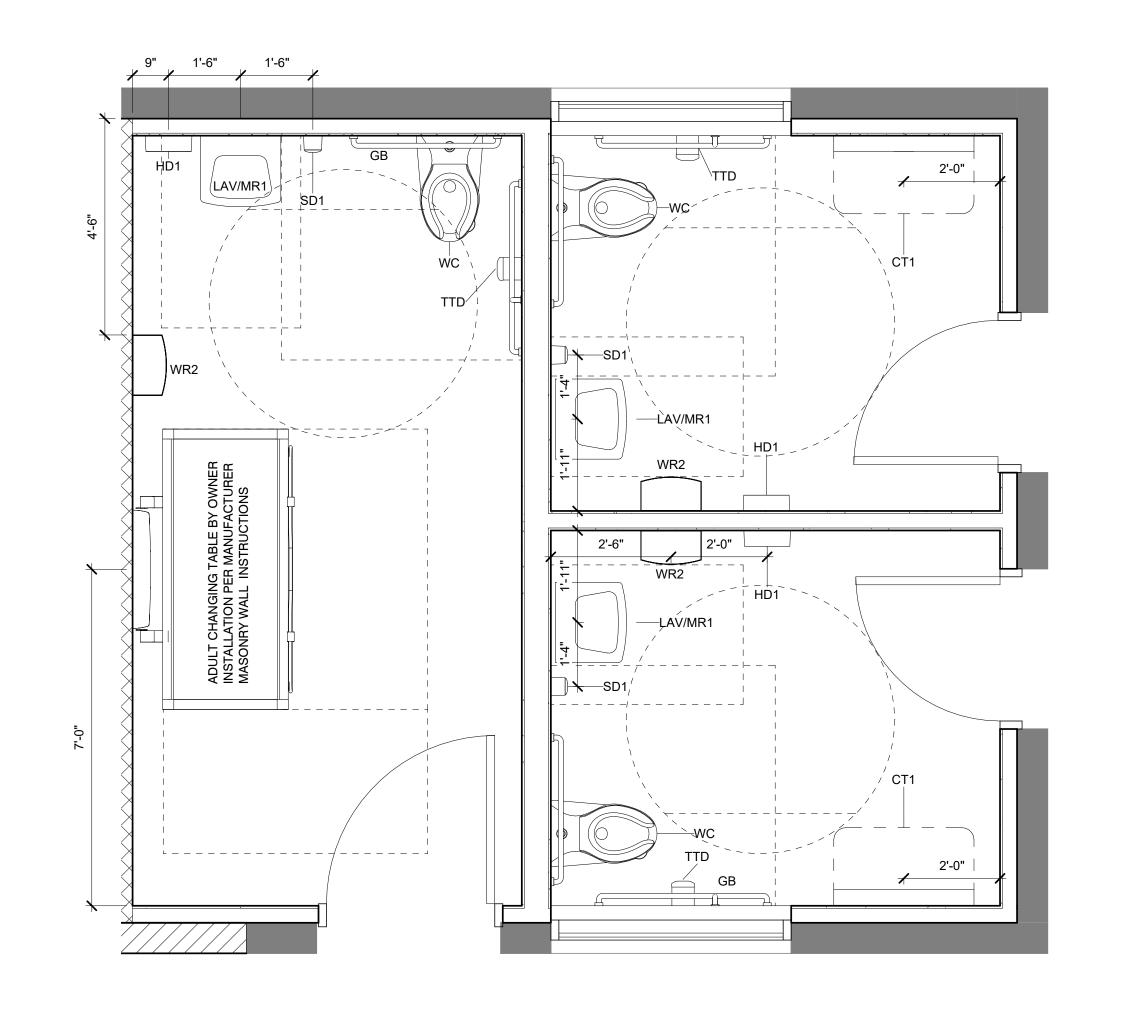
istopher S. Blue, License #172

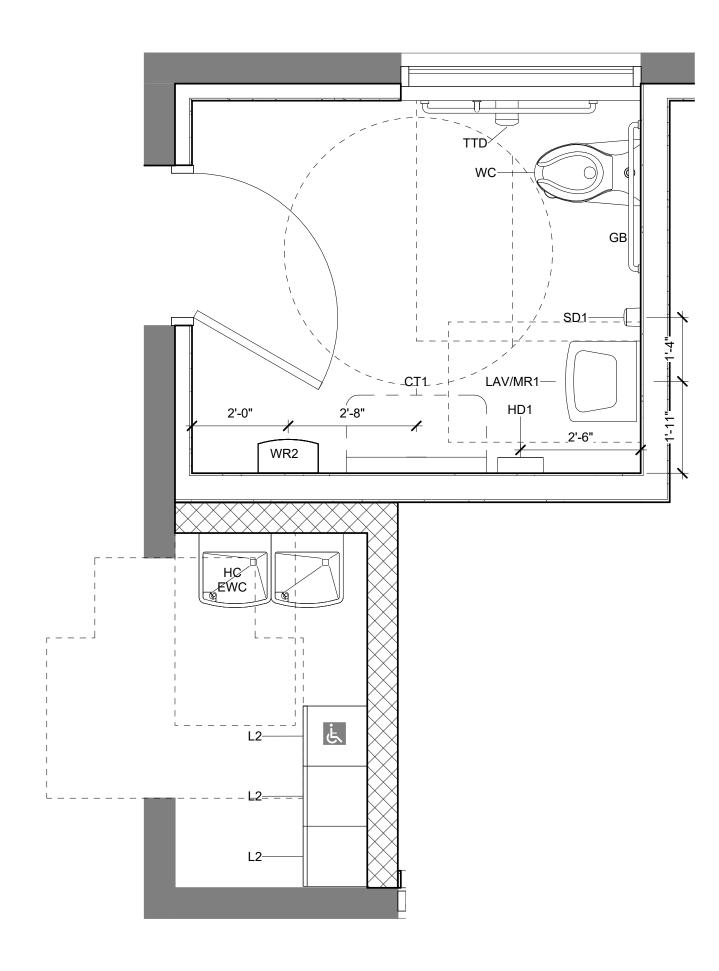
242425 SHEET

A0.02









Christopher S. Blue, License #17287 Expiration Date 12/31/2025

COMMUNITY PARK IMPROVEMENTS VILLAGE OF JEFFERSON 262 E JEFFERSON ST

JEFFERSON

SCALE:

As indicated

CONTRACT NO:

242425 SHEET

A2.02



1 ENLARGED PLAN

A2.02 / 1/2" = 1'-0"

2 ENLARGED PLAN A2.02 / 1/2" = 1'-0"

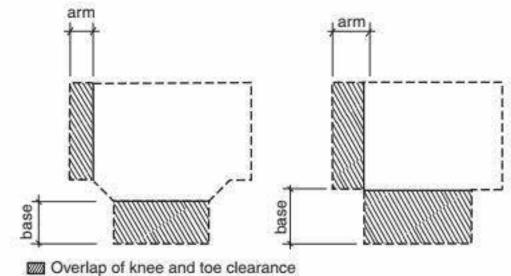


FIGURE 304.3.2.1.1 T-SHAPED TURNING SPACE NEW BUILDINGS OVERLAP TURNING SPACES SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 OF EITHER THE BASE OR ONE ARM

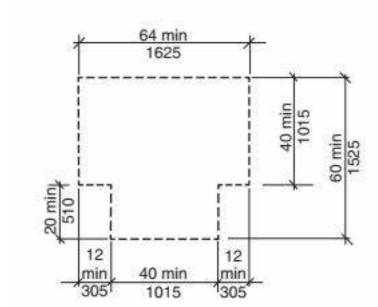
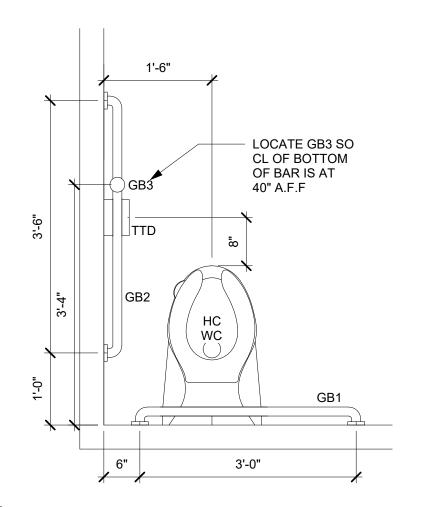
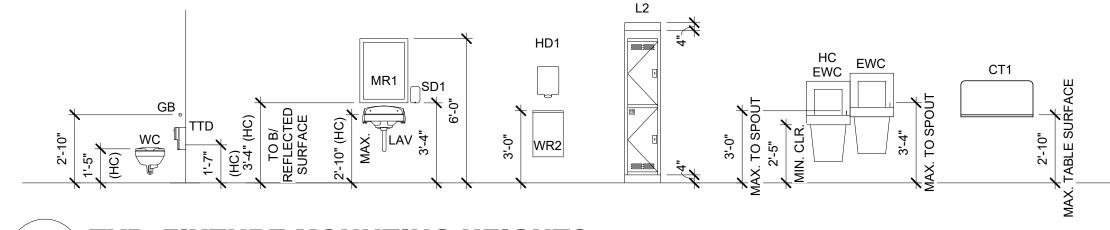


FIGURE 304.3.2.1(C) T-SHAPED TURNING SPACE NEW BUILDINGS - OP.3



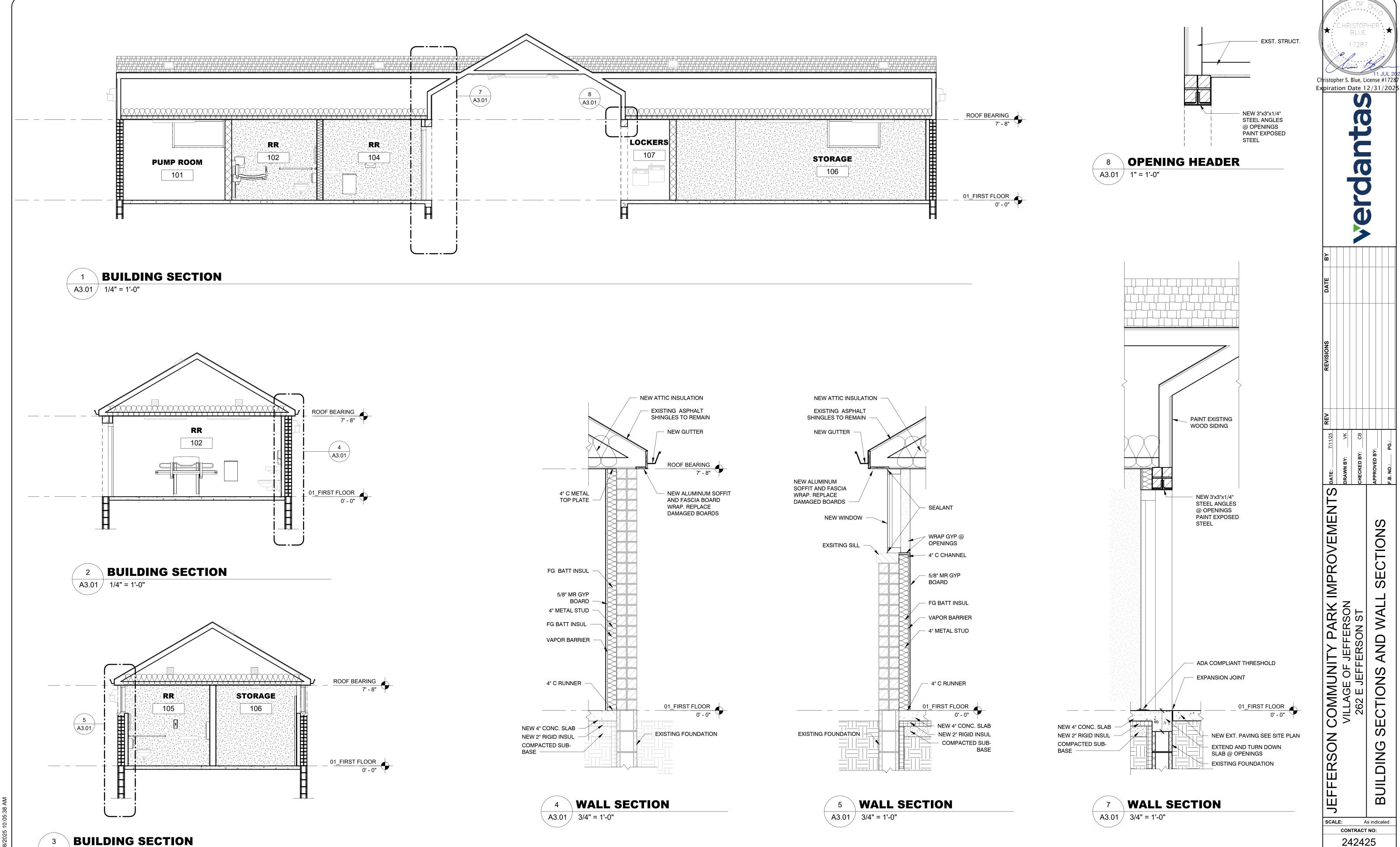
TYP. WATER CLOSET LAYOUT A2.02 3/4" = 1'-0"

NOTE: BABY CHANGING STATION, METAL STUDS AT UNIT TO BE FULLY REINFORCED WITH WOOD STUDS THAT ARE SECURED
TO THE TOP OF THE WALL
AND THE FOOR AND FACED
WITH 14 GA CONTINUOUS
STEEL PLATE 12" EACH SIDE
OF CENTERLINE ON UNIT
MOUNTING BRACKET)



10 TYP. FIXTURE MOUNTING HEIGHTS

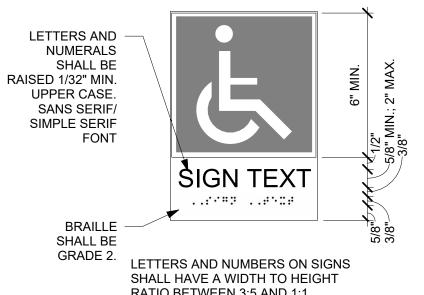
A2.02 1/4" = 1'-0"



SHEET

A3.01

A3.01 / 1/4" = 1'-0"



RATIO BETWEEN 3:5 AND 1:1.

LETTERS AND NUMBERS ON SIGNS

SHALL HAVE A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.

CHARACTERS AND SYMBOLS SHALL CONTRAST WTIH BACKGROUND (LIGHT ON DARK, OR DARK ON LIGHT)

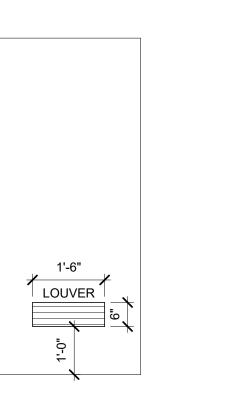


ADA SIGNAGE

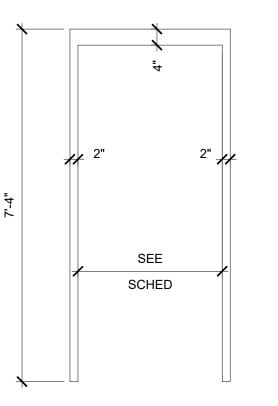
A6.01 / 3" = 1'-0"

SIGNAGE NOTES

- ALL SIGNS TO FOLLOW ADAAG GUIDELINES, CONTRACTORS TO VERIFY THESE GUIDELINES.
- CONTRACTOR TO VERIFY WITH VILLAGE ANY FACILITY STANDARDS OR ORGANIZATIONAL EMBLEMS/ SYMBOLS TO BE USED.
- ALL SIGNS TO BE LOCATED 3" FROM LATCH SIDE OF DOOR, MOUNTED 60 INCHES A.F.F TO THE CENTERLINE OF SIGN. IF THERE IS INSUFFICIENT ROOM ON THE LATCH SIDE OF THE DOOR TO INSTALL THE SIGN, THEN SIGNS ARE TO BE POSITIONED TO THE
- NEAREST ADJACENT WALL OF THE DOOR LATCH. MOUNTING HEIGHTS IDENTIFYING ROOMS MUST BE MOUNTED SO THAT THE BOTTOM OF THE RAISED CHARACTERS ARE BETWEEN 48 INCHES AND 60 INCHES ABOVE THE FLOOR.
- SIGN FINISHES CONTRACTOR TO COORDINATE WITH VILLAGE ALL COLORS AND TEXT



DOOR TYPE



DOOR FRAME

	DOOR									FRAME HA					HAR	OWARE	
	S	SIZE													<u></u>	# E	
MARK	w	н	т	RATING (MIN)	ТҮРЕ	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	НЕАБ	JAMB	SILL	HARDWARE SE	KEYSIDE ROOI	REMARKS
1	(2) 3'-0"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	2	2	1	1	101	1
2	3'-6"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	1	1	1	2	102	1
3	3'-0"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	1	1	1	2	103	1
4	3'-0"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	1	1	1	2	104	1
5	3'-0"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	1	1	1	2	105	1
6	(2) 3'-0"	6'-8"	1 3/4"	-	F	FRP	PT	-	1	AL	PT	1	1	1	1	106	1

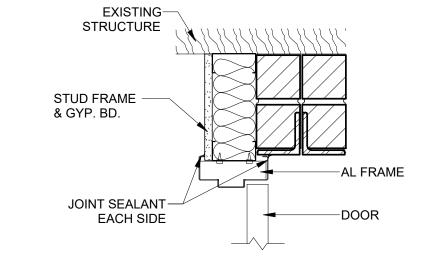


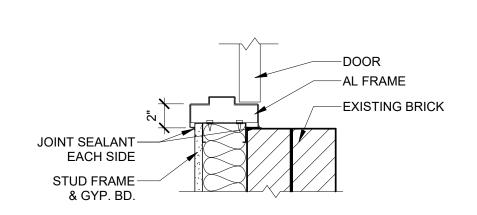
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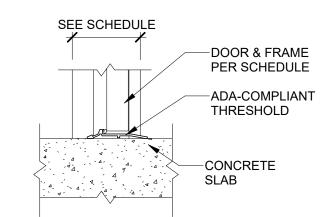
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	ABBREVIATIONS	REMARKS
AL FRP PT	ALUMINUM FIBERGLASS REINFORCED PLASTIC PAINTED	1. FINISH AND PAINT EXTERIOR DOOR AND FRAME. HARDWARE SET 1: BRUSHED NICKEL HARDWARE FINISH, COMMERCIAL GRADE, 1.5 PAIR HINGES, SILENCERS, KEYED LOCKSET, CONFIRM WITH OWNER HARDWARE SET 2: BRUSHED NICKEL HARDWARE FINISH, COMMERCIAL GRADE, ADA COMPLIANT HANDLE, 1.5 PAIR HINGES,



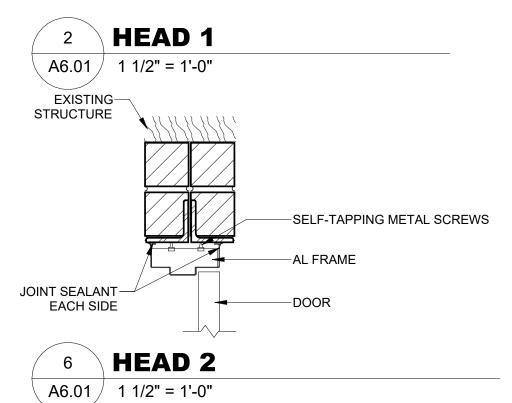




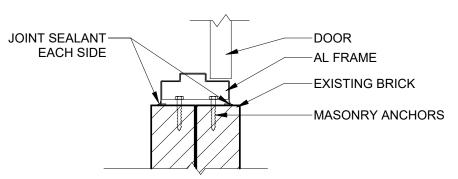
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A6.01 / 1 1/2" = 1'-0"

SILENCERS, PRIVACY LOCKSET, AND ADA DOOR SIGNAGE









COMMUNITY PARK IMPROVEMENTS VILLAGE OF JEFFERSON 262 E JEFFERSON ST **DETAILS** AND

DOOR

JEFFERSON SCALE: As indicated CONTRACT NO: 242425

SHEET A6.01

				LUMINAIR	E SCHEDU	LE		
TYPE	LUMIN	VAIRE	LAMP TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	REMARKS
	WATTS	VOLTS						
Α	32	120	LED 4,000K	1'x4' CURVED STRIP FIXTURE WITH FROSTED LENS, WIDE	SURFACE	COLUMBIA LIGHTING, OR	MPS-4-40-ML-C-W-ED-U	
			4,500 LUMENS	OPTICS AND 0-10V DIMMING.		EQUALS BY LITHONIA,		
						PHILIPS, COOPER		
AE	32	120	LED 4,000K	SAME AS TYPE 'A' BUT WITH INTEGRAL EMERGENCY	SURFACE	COLUMBIA LIGHTING, OR	MPS-4-40-ML-C-W-ED-U-ELL14	1
			4,500 LUMENS	BATTERY PACK.		EQUALS BY LITHONIA,		
						PHILIPS, COOPER		
В	27	120	LED 4,000K	4' NARROW WRAP-AROUND FIXTURE WITH CURVED	SURFACE	COLUMBIA LIGHTING, OR	RLW-4-40-LW-FA-W-E	
			4,200 LUMENS	FROSTED LENS. DAMP LOCATION LISTED.		EQUALS BY LITHONIA,		
						PHILIPS, COOPER		
BE	27	120	LED 4,000K	SAME AS TYPE 'B' BUT WITH INTEGRAL EMERGENCY	SURFACE	COLUMBIA LIGHTING, OR	RLW-4-40-LW-FA-W-E-ELL14	1
			4,200 LUMENS	BATTERY PACK.		EQUALS BY LITHONIA,		
						PHILIPS, COOPER		
B2	18	120	LED 4,000K	2' NARROW WRAP-AROUND FIXTURE WITH CURVED	SURFACE	COLUMBIA LIGHTING, OR	RLW-2-40-LW-FA-W-E	
			2,600 LUMENS	FROSTED LENS. DAMP LOCATION LISTED.		EQUALS BY LITHONIA,		
						PHILIPS, COOPER		
W	28	120	LED 4,000K	EXTERIOR WALL SCONCE. DARK BRONZE FINISH.	WALL	COLUMBIA LIGHTING, OR	LNC2-48L-25-4K7-4W-UNV-FINISH	2
			3,500 LUMENS			EQUALS BY LITHONIA,		
						PHILIPS, COOPER		

SCHEDULE REMARKS

- 1. PROVIDE A SEPARATE UN-SWITCHED HOT AHEAD OF ALL CONTROLS FOR EMERGENCY BATTERY OPERATION.
- 2. FIXTURE TO BE CONTROLLED VIA TIME CLOCK.

		ľ	ME	CHA	ANI	CAL	EC	QUIPMEN	IT WIRING S	SCH	EDU	LE	
	RECT CONNECT ARIABLE FREQUENCY DRIVE	COM AND	BINAT FUSEI	ION ST	ARTEI ONNE	R ,	\	FUSED DISCONN	ECT UNON-FUSED	DISCO	NNECT	TO MANITAL MOTOR STARTER	WITCH JNCTION BOX
ITEM NO.	EQUIPMENT	HP	KW	MCA	FLA	VOLTS	ф	CONNECTION BY EC	PANEL / CKT.NO.		BKR POLES	WIRING AND CONDUIT	NOTES
EF-1	EXHAUST FAN	-	0.16	-	-	120	1	1	LP / 46	20	1	2-12 AWG & 1-12 AWG GND - 3/4" C.	2
EF-2	EXHAUST FAN	-	0.11	-	-	120	1	1	LP / 46	20	1	2-12 AWG & 1-12 AWG GND - 3/4" C.	2
EH-1	ELECTRIC UNIT HEATER	-	4	-	16.7	240	1	1	LP / 2,4	25	2	2-10 AWG & 1-10 AWG GND - 3/4" C.	
EH-2	ELECTRIC UNIT HEATER	-	3	-	12.5	240	1	1	LP / 6,8	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EH-3	ELECTRIC UNIT HEATER	-	1.5	-	6.25	240	1	1	LP / 10,12	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EH-4	ELECTRIC UNIT HEATER	-	1.5	-	6.25	240	1	1	LP / 14,16	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EH-5	ELECTRIC UNIT HEATER	-	1.5	-	6.25	240	1	1	LP / 18,20	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EH-6	ELECTRIC UNIT HEATER	-	3	-	12.5	240	1	1	LP / 22,24	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EH-7	ELECTRIC UNIT HEATER	-	3	-	12.5	240	1	1	LP / 26,28	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
EWH-1	ELECTRIC WATER HEATER	-	8.7	-	36.3	240	1	└☐ 60AS	LP / 30,32	50	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	
EWH-2	ELECTRIC WATER HEATER	-	8.7	-	36.3	240	1	└ <u></u> 60AS	LP / 34,36	50	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	
EWH-3	ELECTRIC WATER HEATER	-	8.7	-	36.3	240	1	└☐ 60AS	LP / 38,40	50	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	
EWH-4	ELECTRIC WATER HEATER	-	8.7	-	36.3	240	1	└☐ 60AS	LP / 42,44	50	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	

SCHEDULE NOTES

- 1. EQUIPMENT FURNISHED WITH INTEGRAL DISCONNECT SWITCH.
- 2. PROVIDE AND WIRE THROUGH ASTRONOMICAL TIME CLOCK #4 CONTROLS.

ELECTRICAL DEMOLITION NOTES

- A. DEMOLITION INDICATED ON THE CONTRACT DOCUMENTS IS SHOWN IN GENERAL TO INDICATE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DEMOLITION OF THE ELECTRICAL WORK INDICATED INCLUDING ANY CONCEALED ITEMS OR ANY EXISTING ITEMS NOT SHOWN ON THE CONTRACT DOCUMENTS. BEFORE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE FIELD-TESTING TO DETERMINE THE NATURE OF THE EXISTING ELECTRICAL WORK TO BE DEMOLISHED TO PROTECT EXISTING WORK REMAINING IN PLACE AND TO PROTECT THE PUBLIC.
- B. REPAIR AND RESTORE TO ORIGINAL SOUND CONDITION ALL ITEMS OR PORTIONS OF ELECTRICAL WORK, WHICH ARE NOT NOTED TO BE DEMOLISHED, BUT ARE DAMAGED BY WORK UNDER THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING EQUIPMENT THAT SHALL REMAIN. RECONNECT ANY EQUIPMENT BEING DISTURBED BY THIS RENOVATION, YET REQUIRED FOR CONTINUED SERVICE TO SAME OR NEAREST AVAILABLE PANEL.
- C. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENING, ETC.) RESULTS IN THE REMOVAL, RELOCATION, OR REFEEDING OF ELECTRICAL DEVICES OR LUMINARIES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
- D. CONTRACTOR SHALL VERIFY ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION. WHERE ADDITIONAL CIRCUITS ARE NEEDED, USE AVAILABLE SPARE BREAKERS IN THE PANEL AND TIGHTEN ALL CONNECTIONS.
- E. DO NOT PROCEED WITH DEMOLITION WITHOUT WRITTEN AUTHORITY. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER AND COORDINATE WITH ALL TRADES INVOLVED. COORDINATE AND SEQUENCE DEMOLITION SO AS NOT TO CAUSE A SHUTDOWN OF OPERATION OF SURROUNDING AREAS.
- DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ALL ELECTRICAL LUMINARIES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT, AND WIRING, WHICH ARE NOT A PART OF THE FINAL PROJECT IN ALL AREAS WHERE WORK OF THIS CONTRACT IS TO BE PERFORMED. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY THIS CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. ABANDONED CONDUIT SHALL BE REMOVED, ALONG WITH WIRE NO LONGER IN USE FROM DEVICE LOCATION BACK TO PANEL.
- G. ARRANGE TIMING OF SHUTDOWN PERIODS OF ALL IN-SERVICE PANELS WITH THE OWNER'S REPRESENTATIVE. DO NOT SHUTDOWN ANY SERVICE WITHOUT PRIOR WRITTEN APPROVAL.
- H. DISPOSAL OF LAMPS, BALLASTS, TRANSFORMERS, BATTERIES, ETC., SHALL BE IN ACCORDANCE WITH APPLICABLE EPA REQUIREMENTS.
- WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, THE CONTRACTOR SHALL USE SENSING MEASURING DEVICES TO VERIFY THAT CIRCUITS FEEDING OTHER LOADS NOT WITHIN PROJECT AREA ARE NOT OVERLOADED.
- J. ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES IN THE SPACE AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

ELECTRICAL GENERAL NOTES

A. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

B. CONFIRM THE CEILING TYPES IN ALL AREAS WITH THE GENERAL TRADES CONTRACTOR OR

- WITH THE EXISTING BUILDING CEILING CONDITIONS, AND FURNISH THE PROPER LIGHT FIXTURE TRIMS AND SUPPORTS TO SUIT EACH CEILING TYPE.
- C. ALL LIGHTING FIXTURE LOCATIONS INDICATED ON THIS DRAWING SHALL BE SUPERSEDED BY THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE AREA. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHT FIXTURES.
- D. ALL WALL MOUNTED LIGHTING FIXTURE LOCATIONS INDICATED ON THIS DRAWING SHALL HAVE THE MOUNTING HEIGHTS VERIFIED WITH THE ARCHITECT BEFORE ROUGH-IN.
- E. BRANCH CIRCUIT WIRING FOR EMERGENCY LIGHTING BATTERY PACKS AND EXIT LIGHTS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH ARTICLE 700 OF THE NATIONAL ELECTRICAL CODE.
- F. THIS CONTRACTOR SHALL COORDINATE ALL FLOOR OUTLETS WITH FURNITURE PLAN LAYOUTS BEFORE ROUGH-IN. FINAL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT. OBTAIN FURNITURE PLANS FROM ARCHITECT OR INTERIOR SPACE PLANNER.
- G. ALL EXISTING UNUSED ELECTRICAL WIRE, CONDUIT, AND EQUIPMENT SHALL BE REMOVED.
- H. OPEN WIRE AND OPEN CABLES INSTALLED WITHIN THE RETURN AIR CEILING SPACE SHALL BE PLENUM RATED LETTER CODE 'P'.
- I. ALL WIRE FOR POWER, LIGHTING, AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL
- J. FIRE SEAL OPENINGS AROUND ALL CONDUIT PENETRATIONS. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED WITH LISTED FIRE RATED MATERIALS.
- K. UNLESS OTHERWISE NOTED, ALL HOMERUN WIRING SHALL BE RUN IN EMT THIN-WALL THREADLESS CONDUIT. TYPE MC CABLE MAY BE INSTALLED CONCEALED WITHIN WALL AND CEILING SPACES FOR BRANCH CIRCUIT WIRING.
- L. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.
- M. COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE PLANS AND DETAILS SHOWING THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND TECHNOLOGY WORK TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS AND EQUIPMENT.
- N. PROVIDE LABELS FOR NEW PANELBOARDS TO WARN OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16(A).
- O. PROVIDE LABEL TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT AT SERVICE EQUIPMENT IN ACCORDANCE WITH NEC 110.24(A).

ELECTRICAL SYMBOLS

BRANCH CIRCUIT HOMERUN TO PANEL "A", CIRCUIT #3 AND #5. PROVIDE THE PROPER QUANTITY OF 12 AWG CONDUCTORS FOR THE CIRCUIT(S) INDICATED. A SEPARATE GROUNDING CONDUCTOR IS REQUIRED FOR ALL BRANCH CIRCUITS.

CONDUIT TURNED UP/CONDUIT TURNED DOWN

→/~ CONDUIT STUB

HEAVY LINE WEIGHT INDICATES THIS EQUIPMENT IS NEW OR RELOCATED **EXISTING UNLESS NOTED OTHERWISE**

UNLESS NOTED OTHERWISE

LIGHT LINE WEIGHT INDICATES THIS EQUIPMENT IS EXISTING TO REMAIN,

— — — HEAVY DASHED LINE WEIGHT INDICATES EXISTING EQUIPMENT IS TO BE REMOVED UNLESS NOTED OTHERWISE

SINGLE POLE SWITCH - MOUNTING AT 48" A.F.F.

OCCUPANCY SENSOR SWITCH WITH OVERRIDE SWITCH - WALL MOUNTED AT 48" A.F.F. OR AS NOTED

OCCUPANCY SENSOR SWITCH - CEILING MOUNTED. PROVIDE ONE POWER PACK PER ZONE TO BE CONTROLLED. POWER PACKS ARE NOT SHOWN ON PLANS

LIGHT FIXTURE TYPE 'A'

LIGHT FIXTURE TYPE 'B'

LIGHT FIXTURE TYPE 'C' - WALL MOUNTED. SEE FLOOR PLANS OR LUMINAIRE SCHEDULE FOR MOUNTING HEIGHTS

DUPLEX RECEPTACLE - MOUNTING AT 18" A.F.F.

₱ 48" DUPLEX RECEPTACLE - INDICATES MOUNTING AT 48" A.F.F.

DUPLEX RECEPTACLE - MOUNTING AT 6" ABOVE COUNTER

DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED

PANELBOARD - 0 TO 150 VOLTS TO GROUND

60AS UNFUSED DISCONNECT SWITCH - "60/3" INDICATES 60 AMPERE SWITCH RATING AND POLES

60AS 50AF FUSED DISCONNECT SWITCH - "60AS" INDICATES 60 AMPERE SWITCH RATING AND POLES / "50AF" INDICATES 50 AMPERE FUSE

MAGNETIC MOTOR STARTER - "S1" INDICATES NEMA SIZE 1 STARTER

ONE-LINE DIAGRAM REPRESENTATION OF A FUSED SWITCH -60AS "60AS" INDICATES 60 AMPERE FUSIBLE SWITCH RATING, "50AF" INDICATES 50 AMPERE FUSE

ONE-LINE DIAGRAM REPRESENTATION OF A MOLDED CASE CIRCUIT BREAKER - "60/3" INDICATES 60 AMPERE CIRCUIT

ONE-LINE DIAGRAM REPRESENTATION OF A TRANSFORMER, SIZE

ONE-LINE DIAGRAM REPRESENTATION OF A METER

BREAKER RATING AND POLES

PLAN NOTE TAG, REFER TO PLANS FOR DESCRIPTION

INDICATES POWER CONNECTION TO AIR HANDLER #3-REFER TO EQUIPMENT CONNECTION SCHEDULES FOR REQUIREMENTS

A.F.F. ABOVE FINISHED FLOOR

AS NOTED

U.O.N. UNLESS OTHERWISE NOTED

AS/AF/AT AMPERE SWITCH/AMPERE FUSE/AMPERE TRIP

MLO MAIN LUG ONLY

MCB MAIN CIRCUIT BREAKER

Eastlake, OH 44095 † 440.953.8760 f 440.953.1289

33851 Curtis Blvd., 216 cleveland | columbus

As indicated CONTRACT NO: 242425 SHEET

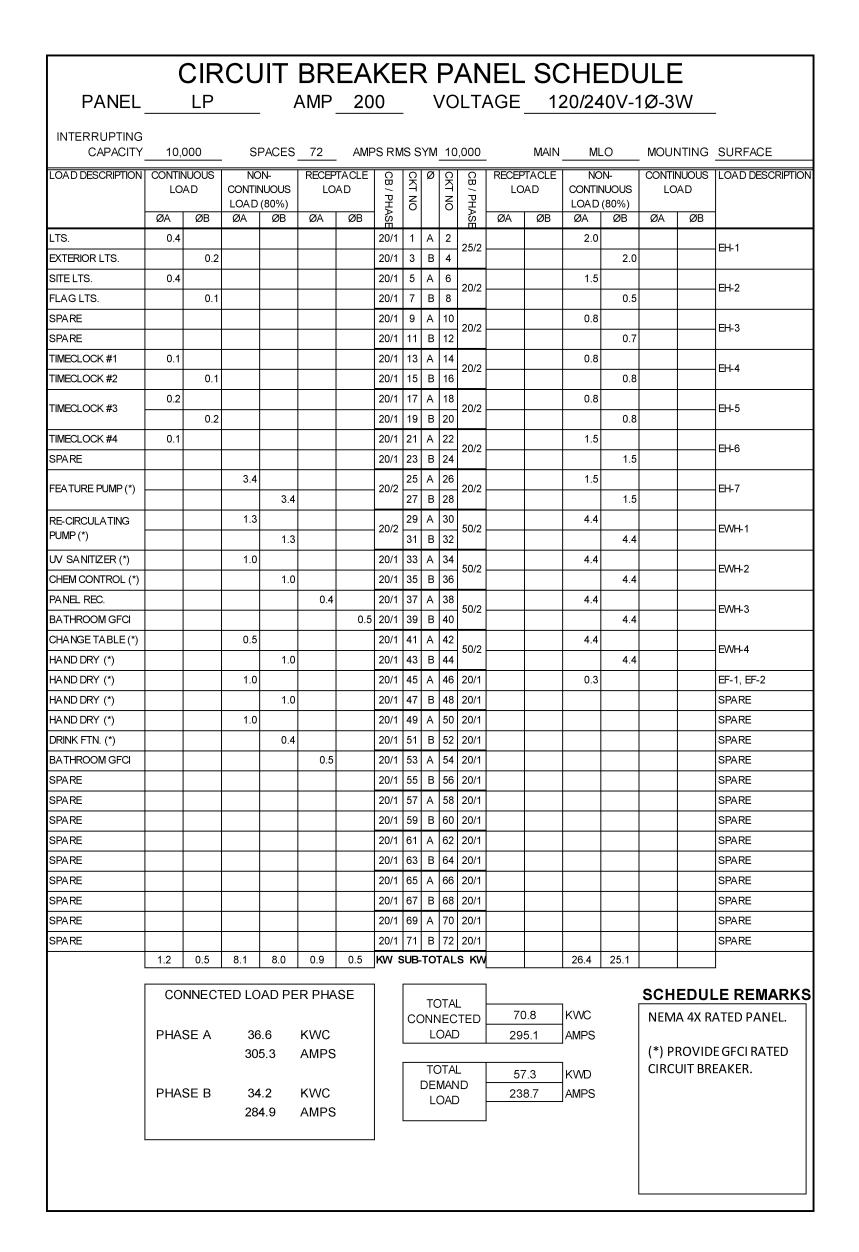
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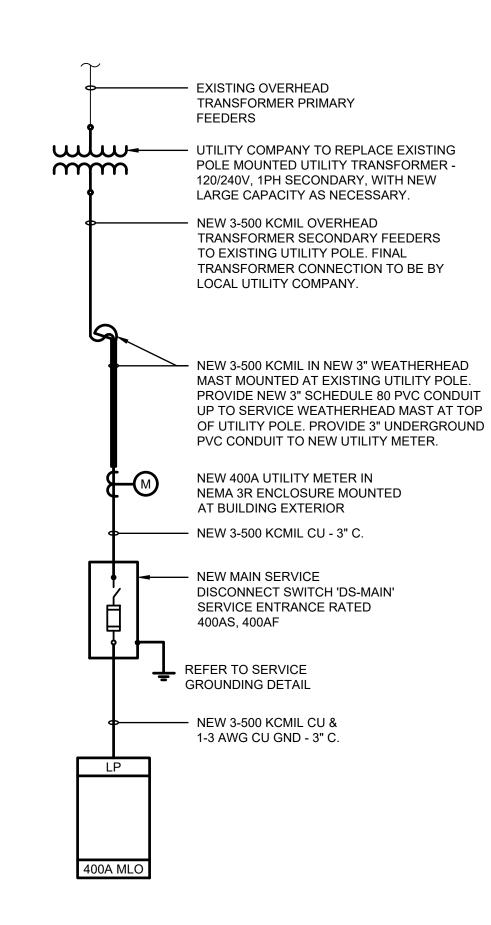
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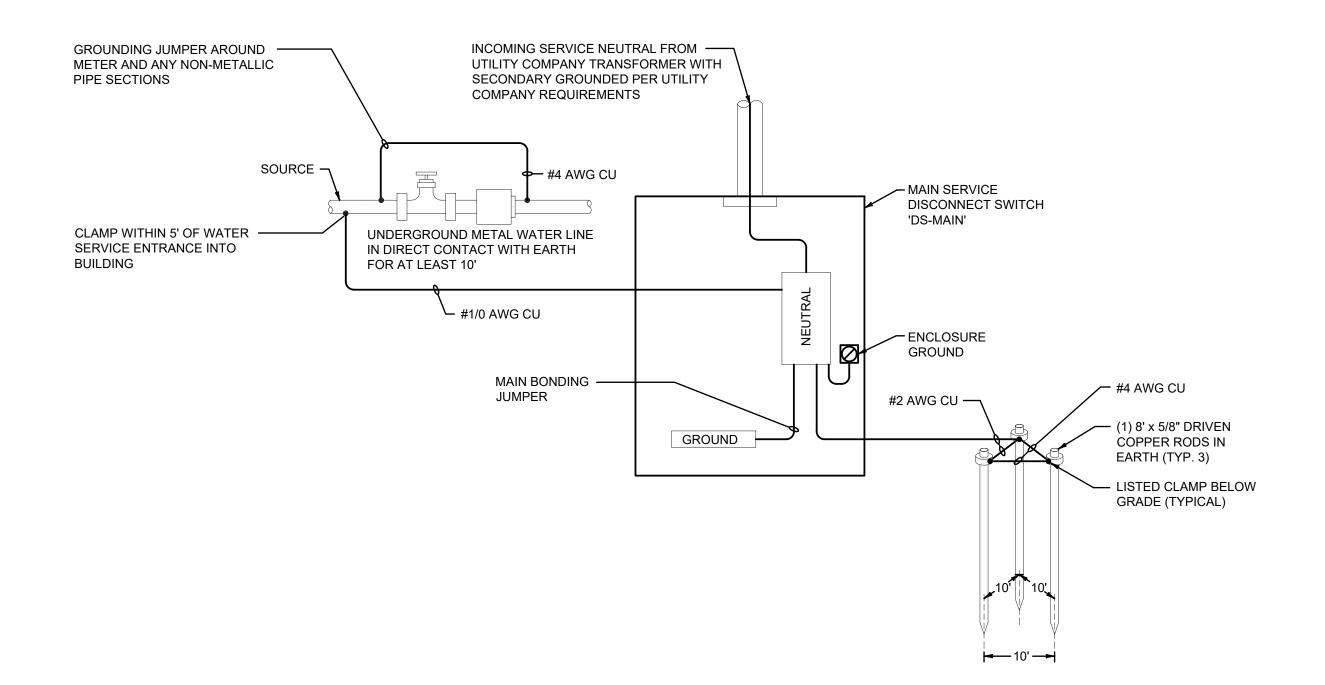
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ONE LINE DIAGRAM

ELECTRICAL SI	ERVICE	LOAD S	UMMAR'	Y
LOAD	KW CONNECTED	DEMAND FACTOR	KW DEMAND	NOTES
LIGHTING	1.0	1.0	1.0	
CONVENIENCE RECEPTACLES	1.44	NEC	1.44	
MISC. BUILDING EQUIPMENT	5.4	0.8	4.32	
MISC. MECHANICAL EQUIPMENT	52.6	0.8	42.1	
SPLASH PAD EQUIPMENT & PUMPS	11.4	0.5	5.7	
TOTALS	71.8		54.6	
SERVICE VOLTAGE: 120/240V, 1-	PH, 3-WIRE	DEMAND AMP	ERES:	228



SERVICE GROUNDING ELECTRODE SYSTEM WIRING DIAGRAM



33851 Curtis Blvd., 216 Eastlake, OH 44095 † 440.953.8760 f 440.953.1289

SHEET E0.02

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DIAGRAM LINE AND ONE

COMMUNITY PARK IMPROVEMENT VILLAGE OF JEFFERSON 262 E JEFFERSON ST

S

SCHEDULES **PANEL**

JEFFERSON As indicated CONTRACT NO: 242425

PART 1 GENERAL

- PROVIDE ALL LABOR AND MATERIAL FOR ALL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, OR REASONABLY IMPLIED, TESTED AND READY FOR USE BY THE OWNER.
- REFER TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER CONTRACT DOCUMENTS FOR THE PROJECT. ELECTRICAL WORK AND/OR COORDINATION ITEMS INDICATED ON THESE DOCUMENTS ARE A PART OF THE ELECTRICAL SCOPE OF WORK
- DISCREPANCIES BETWEEN FACH DIVISION'S DOCUMENTS OR BETWEEN THE DOCUMENTS AND THE EXISTING BUILDING OR SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE
- THE ELECTRICAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE
- FOLLOWING EQUIPMENT OR SYSTEMS: LIGHTING AND LIGHTING CONTROLS
- WIRING DEVICES
- POWER DISTRIBUTION EQUIPMENT
- BRANCH CIRCUIT PANELBOARDS UTILITY SERVICE INSTALLATION DRAWINGS
- GROUNDING AND GROUNDING SYSTEMS
- NEW POWER AND COMMUNICATIONS UTILITY SERVICES CONNECTIONS AND POWER CIRCUITS FOR EQUIPMENT PROVIDED UNDER ANOTHER DIVISION, OR BY THE OWNER.
- DEMOLITION OF EXISTING EQUIPMENT, DEVICES AND WIRING.
- SUBMITTALS, OR SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING EQUIPMENT OR SYSTEMS:
- LIGHTING AND LIGHTING CONTROLS
- WIRING DEVICES
- POWER DISTRIBUTION EQUIPMENT
- BRANCH CIRCUIT PANELBOARDS
- UTILITY SERVICE INSTALLATION DRAWINGS
- PROVIDE SUBMITTALS ONLY FOR EQUIPMENT LISTED ABOVE. ALL SUBMITTALS MUST BE REVIEWED FOR PROPER CONTENT AND ACCURACY BY THE CONTRACTOR BEFORE SUBMISSION TO THE FNGINFFR
- SUBMITTALS SHALL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS. ELECTRONIC COPIES ARE REQUIRED. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS.
- RECORD DRAWINGS [AND OPERATION AND MAINTENANCE MANUALS] ARE REQUIRED TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND APPROVED BEFORE A FINAL CONTRACT PAY REQUEST. RECORD DRAWINGS INCLUDE A CLEAN SET OF CONTRACT DRAWINGS IDENTIFYING CHANGES OR DEMATIONS MADE TO THE ORIGINAL DESIGN AND MUST INCLUDE FEEDER ROUTINGS. [OPERATION AND MAINTENANCE MANUALS (3 SETS) SHALL INCLUDE A COPY OF ALL APPROVED SUBMITTALS, EQUIPMENT MAINTENANCE INSTRUCTIONS, TEST REPORTS, INSPECTION REPORTS, EQUIPMENT WARRANTIES, AND THE CONTRACTORS' ONE-YEAR GUARANTEE ON EQUIPMENT AND LABOR]. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS
- OBTAIN AND PAY FOR LOCAL PERMITS, LICENSES, AND INSPECTION FEES NECESSARY FOR THE WORK. PERMANENT AND TEMPORARY UTILITY SERVICE INSTALLATION CHARGES ARE NOT INCLUDED IN THE BASE-BID WORK: SUCH CHARGES ARE INCLUDED AS AN ALLOWANCE OF \$20,000,00 IN THE CONTRACT. THE UN-USED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT. THIS CONTRACTOR IS RESPONSIBLE FOR CONTACTS WITH UTILITY COMPANIES, AND FOR ARRANGEMENT OF WORK ORDERS.
- TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE CONSTRUCTION PERIOD. TEMPORARY UTILITY POWER AND TELEPHONE SERVICES WILL BE BROUGHT TO THE SITE UNDER CHARGES. THE POINT OF CONNECTION AND METHOD OF EXTENSION SHALL BE APPROVED BY THE OWNER.
- SUBMISSION OF A BID ASSUMES KNOWLEDGE OF ALL DOCUMENTS 1.9 AVAILABLE RELATED TO THE WORK, AS WELL AS EXISTING CONDITIONS MADE AVAILABLE FOR REVIEW AND INSPECTION DURING THE BIDDING PERIOD. THIS CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY UNKNOWN AND/OR CONCEALED CONDITIONS AFFECTING THE NEW WORK, AS THEY ARE DISCOVERED.
- 1.10 WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN: FURNISHED AND NSTALLED BY THE ELECTRICAL CONTRACTOR.
- 1.11 THE ELECTRICAL DISTRIBUTION SYSTEM AND ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CODES AND STANDARDS. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE GROUNDED BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH RACEWAY. THE ENTIRE GROUNDING SYSTEM SHALL BE TESTED FOR CONTINUITY AT THE COMPLETION OF THE WORK
- THE NEW MATERIAL AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE BY THE OWNERS' REPRESENTATIVE. NOTE THAT CERTAIN SPECIFIED ITEMS OF EQUIPMENT MAY CARRY A LONGER PERIOD OF WARRANTEE.
- PROVIDE A PERMANENT NAMEPLATE OR PLAQUE TO IDENTIFY THE MAXIMUM FAULT CURRENT AMPERES AVAILABLE AT THE MAIN SERVICE DISCONNECTING MEANS, IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.

PART 2 PRODUCTS

- ALL MATERIAL, EQUIPMENT INSTALLATION AND LABOR SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE NATIONAL, STATE AND LOCAL CODES AND NFPA PUBLICATIONS, AS INTERPRETED BY THE AUTHORITY HAMING JURISDICTION. THIS CONTRACTOR MUST ADHERE TO PROPER INSTALLATION TECHNIQUES IN ACCORDANCE WITH INDUSTRY STANDARDS AS DEFINED BY ANSI AND NECA. IN ADDITION, OSHA REQUIREMENTS AND ANY SITE-SPECIFIC SAFETY STANDARDS SHALL BE FOLLOWED FOR SAFETY OF PERSONNEL ON SITE. NEW EQUIPMENT SHALL BE UL AND/OR CSA
- WIRING DEVICES SHALL BE "SPECIFICATION GRADE", AND SHALL BE OF ONE MANUFACTURER WITH MATCHING PLASTIC PLATES. HUBBELL DEVICES ARE LISTED: LEVITON AND PASS & SEYMOUR DEVICES WITH EQUAL SPECIFICATIONS MAY BE SUPPLIED. IVORY DEVICES AND PLATES SHALL BE PROMDED, UNLESS OTHERWISE REQUESTED, THE OWNERS REPRESENTATIVE WILL CONFIRM COLORS OF DEVICES AND PLATES DURING THE SUBMITTAL APPROVAL PROCESS. UNLESS NOTED OTHERWISE, STANDARD DEVICES SHALL BE:
 - LIGHT SWITCHES: 120/277 VOLT, QUIET TYPE, HUBBELL #1221 (SINGLE POLE), #1223 (THREE-WAY) AND #1224 (FOUR-WAY).
 - GENERAL PURPOSE RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE, DUPLEX TYPE, NEMA 5-20R, HUBBELL #5362.
 - GFCI RECEPTACLES: 125 VOLT, 20 AMPERE, 2-POLE, 3-WIRE DUPLEX TYPE, NEMA 5-20R, HUBBELL #GFR-5362, SELF-TESTING
 - EXTERIOR RECEPTACLES: PROVIDE A GFCI RECEPTACLE WITH A TAYMAC #MX4380S, METAL EXTRA DUTY "IN-USE" COVER AND HORIZONTAL MOUNTED BOX

- OTHER SPECIAL PURPOSE DEVICES MAY BE SPECIFIED ON THE PLANS. HESE INCLUDE FLOOR OUTLETS AND SURFACE RACEWAY SYSTEMS.
- LINE-VOLTAGE WALL OCCUPANCY SENSORS: WATTSTOPPER #DW-100 SERIES, DUAL TECHNOLOGY, 120/277 VOLT, 800W/1200W RATED, WITH ON/OFF BUTTON. SENSOR SWITCH TYPE WSD-PDT IS CONSIDERED AN
- LINE-VOLTAGE CEILING OCCUPANCY SENSORS: WATTSTOPPER #DT-355 SERIES DUAL TECHNOLOGY 120/277 VOLT 800W/1200W RATED WITH 360° COVERAGE. SENSOR SWITCH TYPE CMR-PDT-9 IS CONSIDERED AN
- LOW-VOLTAGE CEILING OCCUPANCY SENSORS: WATTSTOPPER #DT-300-U, DUAL TECHNOLOGY, 24VDC/VAC, 43MA, WITH 360° STANDARD COVERAGE. PROVIDE EACH SENSOR WITH A #BZ-150-U UNIVERSAL VOLTAGE (POWER PACK) RELAY. SENSOR SWITCH TYPE CM-PDT-9 WITH #PP-20 IS CONSIDERED AN EQUIVALENT.
- WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDED WIRE CONNECTED TO THE DEVICE AND/OR THE OUTLET BOX.
- ALL WIRING SHALL BE COPPER, 90 DEGREE C. RATED, TYPE THHN, THWN OR XHHW WITH 600-VOLT INSULATION UNLESS INDICATED OTHERWISE ON THE DRAWINGS THE MINIMUM WIRE SIZE IS #12 FOR 120- AND 277-VOLT BRANCH CIRCUITS; #10 SHALL BE USED FOR CIRCUIT LENGTHS GREATER THAN 150 FEET
 - FOR EXTENSION OF EXISTING DISTRIBUTION SYSTEMS, MATCH THE COLOR-CODING USED IN THE EXISTING SYSTEMS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
 - COLOR CODE BRANCH CIRCUIT AND FEEDER CONDUCTORS AS
 - 120/240 VOLT, 1 PHASE, 3 WIRE SYSTEM PHASE A-BLACK PHASE B-RED

PULLBOXES

- NEUTRAL-WHITE GROUND-GREEN IN ADDITION TO THESE REQUIREMENTS, ALSO PROVIDE COLOR CODING OF CONDUCTORS AT ALL JUNCTION OR
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. AT THE CONTRACTOR'S OPTION, AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE, TYPE MC CABLE, OR A MANUFACTURED WIRING SYSTEM MAY BE USED FOR 20 AMPERE AND 30 AMPERE BRANCH CIRCUITS IN STUD WALLS AND ABOVE ACCESSIBLE LAY-IN CEILINGS IN LIEU OF CONDUIT AND WIRE. HOMERUNS TO PANELS SHALL BE IN CONDUIT. PVC CONDUIT MAY BE USED FOR EXTERIOR UNDERGROUND CIRCUITS AND FOR INTERIOR CIRCUITS AND FEEDERS LOCATED UNDER THE GROUND FLOOR SLAB. FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO MOTORS, EQUIPMENT, TRANSFORMERS, LIGHTING FIXTURES, AND FOR BRANCH CIRCUIT WIRING INSTALLED IN CASEWORK EXPOSED CONDUIT IN HIGH TRAFFIC AREAS SHALL BE RIGID GALVANIZED OR IMC, FROM THE FLOOR TO A LEVEL OF 8'-0" ABOVE THE FLOOR.
- LIGHTING FIXTURES AND ASSOCIATED DRIVERS, AND LIGHTING CONTROLS SHALL BE AS INDICATED ON THE DRAWINGS COMPLETE WITH PROPER LEDS ACCESSORIES AND SUPPORTS AS RECOMMENDED BY THE MANUFACTURER AND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, ARTICLES 410 AND 411, OR ANY LOCAL CODES THAT MAY APPLY.
 - ADJUSTABLE FIXTURES SHALL BE AIMED AT NIGHT UNDER THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
 - IMMEDIATELY PRECEDING THE FINAL INSPECTION, THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL FIXTURES OF DUST, DIRT, GREASE, FINGERMARKS, ETC. ALL FIXTURES SHALL BE OPERATING AT THE TIME OF OWNER'S ACCEPTANCE.
- PANELBOARDS, DISCONNECTS, AND OTHER POWER DISTRIBUTION EQUIPMENT SHALL BE PROVIDED FROM ONE MANUFACTURER WHEREVER POSSIBLE. APPROVED MANUFACTURERS ARE SQUARE D. GENERAL ELECTRIC. SIEMENS/ITE OR CUTLER HAMMER. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. UNLESS INDICATED OTHERWISE ON THE DRAWINGS WITH INTERRUPTING RATINGS EQUAL TO OR GREATER THAN FAULT CURRENTS AVAILABLE AT THE POINT OF SERVICE, 10 KAIC MINIMUM FOR 208Y/120 VOLT SYSTEMS; 14 KAIC MINIMUM FOR 480Y/277 VOLT SYSTEMS. OTHER CIRCUIT BREAKER RATINGS SUCH AS HACR, HID, SWD, GFCI AND SHUNT-TRIP FEATURES SHALL BE PROVIDED WHERE REQUIRED BY CODE OR AS INDICATED ON THE DRAWINGS. BALANCE THE LOAD ON EACH PANEL AND DISTRIBUTION SYSTEM INSTALLED.
- BRANCH CIRCUIT PANELS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED, LOCKABLE AND KEYED ALIKE, AND SHALL HAVE A DOOR-IN-
- BUSSING FOR PANELBOARDS OR SWITCHBOARDS SHALL BE COPPER. DISTRIBUTION PANELS SHALL BE PROVIDED WITH BUSSED PROVISION SPACE EQUAL TO 20% (MINIMUM) OF THE ACTIVE DEVICE SPACE UTILIZED IN EACH SECTION.
- FUSIBLE AND NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK MAKE/ QUICK BREAK OPERATION, WITH A NEMA 1 RATING (INTERIOR) OR NEMA 3R RATING (EXTERIOR) UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. PROVIDE DIFFERENT ENCLOSURES IF NEEDED, BASED ON THE CONDITIONS AFFECTING THE EQUIPMENT, FUSES SHALL BE DUAL ELEMENT-AMPERES AND BELOW, AND BUSSMAN TYPE KRP-C ABOVE 600 AMPERES. EQUIVALENT FUSES BY FERRAZ-SHAWMUT OR LITTELFUSE ARE ACCEPTABLE.
- NAMERIATES SHALL BE PROVIDED FOR IDENTIFICATION OF ALL POWER DISTRIBUTION EQUIPMENT AND SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERING AND BLACK BACKGROUND, UNLESS DIRECTED OTHERWISE BY THE OWNER'S REPRESENTATIVE. PANELBOARD BRANCH CIRCUITS SHALL BE IDENTIFIED WITH TYPEWRITTEN DIRECTORIES.
 - PROVIDE NEW DIRECTORIES FOR ALL EXISTING PANELS WHICH FEED NEW BRANCH CIRCUITS.
 - SPARE CIRCUIT BREAKERS SHALL BE IDENTIFIED AS SUCH AND SHALL BE LEFT IN THE "OFF" POSITION AT THE CONCLUSION OF THE WORK.
- MOTOR STARTERS SHALL BE COMBINATION TYPE WITH MOTOR CIRCUIT PROTECTOR, RUNNING PILOT LIGHT, H-O-A SELECTOR SWITCH, ELECTRONIC OVERLOAD RELAYS, 120 VOLT FUSED CONTROL TRANSFORMER, NEMA 1 ENCLOSURE AND OTHER AUXILIARY CONTACTS AND COMPONENTS NEEDED FOR PROPER MOTOR CONTROL. THE DIVISION 23 SPECIFICATIONS WILL INDICATE THE REQUIREMENTS OF EACH MOTOR STARTER BASED UPON THE CONTROL SEQUENCE - FRANKLIN CONTROL SYSTEMS, MODEL BAS OR EQUAL BY SQUARE D, ABB, OR EATON.
- SINGLE PHASE MANUAL MOTOR STARTERS SHALL BE SURFACE MOUNTED, ELECTRONIC TYPE WITH HAND-OFF-AUTO SWITCH, LOCKING HARDWARE, PILOT LIGHT AND (1) AUXILIARY CONTACT FOR BAS OR INTERLOCK CONTROL -FRANKLIN CONTROL SYSTEMS, MODEL BAS-1P OR EQUAL BY SQUARE D, ABB, OR

PART 3 EXECUTION

- COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES ON SITE, INCLUDING CORE DRILL LOCATIONS AND FEEDER ROUTINGS. PROVIDE LAYOUT DRAWINGS FOR ELECTRICAL DISTRIBUTION ROOMS AND CLOSETS AND SUBMIT COPIES TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE ROUGHING-IN CONDUITS AND EQUIPMENT.
- CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS SHALL BE PROVIDED BY SKILLED MECHANICS IN THE TRADE. FINAL FINISHING AND PAINTING IS BY THE GENERAL TRADES CONTRACTOR.
- IT IS THE PURPOSE OF THE CONTRACT DOCUMENTS TO INDICATE THE APPROXIMATE LOCATIONS OF ALL EQUIPMENT, OUTLETS, ETC. THE EXACT LOCATION OF EQUIPMENT AND OUTLETS MAY BE ADJUSTED FROM TIME TO TIME AS THE WORK PROGRESSES. THIS CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS AND ARRANGE THE WORK ACCORDINGLY. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TIME OF ROUGH-IN WITHOUT ADDITIONAL COST. ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION, VISIBLE FOR TESTING AND INSPECTION.
- SERVE AND CONNECT ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER DIVISIONS OR OWNER. COORDINATE ALL OUTLET LOCATIONS AND CONNECTION REQUIREMENTS WITH THE CONTRACTOR FURNISHING THE EQUIPMENT. BEFORE CONNECTING ANY PIECE OF EQUIPMENT, CHECK THE NAMEPLATE RATING AGAINST THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. CAREFULLY STUDY ALL MANUFACTURERS' EQUIPMENT WIRING DIAGRAMS AND MAKE CONNECTIONS ACCORDINGLY.
- LOCATE AND PROVIDE ALL OPENINGS IN FLOORS, CEILINGS, AND WALLS TO ALLOW FOR CONDUIT PENETRATIONS.

- SUBMIT TO THE OWNER'S REPRESENTATIVE ALL LOCATIONS AND SIZES OF OPENINGS WHICH MUST BE PROVIDED FOR THE WORK BEFORE DRILLING OR SETTING ANY SLEEVES.
- FINAL LOCATIONS AND SIZES OF ALL OPENINGS SHALL BE SUBJECT TO THE OWNER'S REPRESENTATIVE FINAL APPROVAL.
- PROVIDE ALL FIRE STOPS AND SMOKE AND FIRE BARRIERS AROUND ALL CONDUIT PENETRATIONS PROVIDED UNDER THIS WORK ALL FIRE BARRIERS SHALL BE ULLISTED AND RECOGNIZED SUITABLE BY FACTORY MUTUAL AND NFPA FIRE BARRIERS SHALL RESTORE ALL PENETRATIONS TO BE AT LEAST THE MINIMUM FIRE RATING OF THE SURFACE PENETRATED. BARRIERS SHALL COMPLETELY FILL THE OPENINGS AND SHALL BE SECURELY ANCHORED TO PREVENT ACCIDENTAL REMOVAL. ALL SMOKE AND FIRE BARRIERS SHALL BE MADE USING ONLY RECOGNIZED MATERIALS AND WILL BE ACCEPTABLE SUBJECT TO THE OWNER'S REPRESENTATIVE FINAL APPROVAL. SMOKE AND FIRE BARRIERS MAY BE STI FIRE SEAL, DUPONT, OR US GYPSUM.
- SEAL EXTERNAL WALL PENETRATIONS WHERE CONDUIT PASSES FROM A COLDER AREA TO A WARMER AREA.
- MOUNTING HEIGHTS OF DEVICES ARE AS INDICATED ON THE PLANS, OR AS SHOWN ON THE ARCHITECTURAL INTERIOR ELEVATIONS. OUTLET BOXES FOR DEVICES SHALL NOT BE MOUNTED BACK-TO-BACK IN STUD WALL CONSTRUCTION ADJACENT DEVICES SHALL BE INSTALLED IN GANGED BOXES. WITH COMMON COVER PLATES WHEREVER POSSIBLE. UNLESS OTHERWISE NOTED, RECEPTACLES SHALL BE MOUNTED VERTICALLY, WITH THE GROUND PIN ABOVE THE PHASE AND NEUTRAL PIN.
- ALL BOXES AND CONDUITS SHALL BE CONCEALED IN FINISHED AREAS OF NEW CONSTRUCTION. CONDUIT SYSTEMS SHALL BE SUPPORTED FROM THE STRUCTURE, INDEPENDENT OF DUCTWORK AND OTHER TRADES. HANGERS, STRAPS AND CLAMPS SHALL BE APPROVED FOR THE PURPOSE. JUNCTION BOXES, OUTLET BOXES AND PULL BOXES SHALL BE LOCATED IN ACCESSIBLE AREAS AND SHALL BE PERMANENTLY MARKED ACCORDING TO THE CIRCUIT OR SYSTEM SERVED.
- SUSPENDED CEILING SYSTEMS INCLUDING THE ASSOCIATED SUPPORT WIRES SHALL NOT BE USED FOR CONDUIT SUPPORT. CONDUITS SHALL NOT INTERFERE WITH CEILING TILE INSTALLATION OR REMOVAL AND SHALL NOT REST ON OR BE ATTACHED TO THE T-BARS OF THE SYSTEM.
- RENOVATION WORK MAY REQUIRE THE INSTALLATION OF SURFACE MOUNTED CONDUIT OR SURFACE RACEWAYS WHERE CONCEALING CONDUIT IS NOT POSSIBLE. THE ROUTING AND LOCATION OF SUCH RACEWAYS SHALL BE APPROVED BY THE OWNERS' REPRESENTATIVE.
- 3.10 PROVIDE THE PROPER CONNECTION AND/OR DISCONNECT AND OVER-CURRENT PROTECTION FOR OWNER AND DIVISION 15 EQUIPMENT. BASED UPON THE CONTRACT DOCUMENTS. VERIFY THIS INFORMATION WITH THE UNIT NAMEPLATE OR FIELD WIRING SCHEMATIC REFORE ROUGH IN
- ELECTRICAL EQUIPMENT SHALL BE STORED IN A HEATED AND VENTILATED SPACE UNTIL READY FOR DELIVERY TO THE FINISHED EQUIPMENT SPACE ON
- 3.12 FOR FEEDERS AND EQUIPMENT CIRCUITS 40 AMPERE RATED AND ABOVE, THE INTENT OF THE DESIGN IS TO INSTALL A MAXIMUM OF THREE (3) CURRENT-CARRYING CONDUCTORS IN A SINGLE CONDUIT (RACEWAY), UTILIZING THE FULL CONDUCTOR AMPACITIES ALLOWED AND DEFINED IN THE NATIONAL ELECTRICAL CODE ARTICLE 310. COMBINING OF FOUR (4) OR MORE CURRENT-CARRYING CONDUCTORS IN A SINGLE RACEWAY MUST BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE
- 3.13 UNLESS SPECIFICALLY REQUESTED BY THE OWNER'S REPRESENTATIVE. CEILING AND WALL MOUNTED OCCUPANCY SENSORS SHALL BE SET WITH DEFAULT TIMES. AS FOLLOWS
 - PRIVATE OFFICES 10 MINUTES STORAGE AREAS - 5 MINUTES
 - MULTIPLE PERSON WORK AREAS 30 MINUTES PUBLIC RESTROOMS - 30 MINUTES HALLWAYS, CORRIDORS - 30 MINUTES ALL OTHER SPACES - 10 MINUTES
- 3.14 CEILING MOUNTED OCCUPANCY SENSORS SHALL BE POSITIONED AND ADJUSTED BY THE CONTRACTOR TO ELIMINATE NUISANCE OPERATION OF THE CIRCUIT FROM HVAC DIFFUSERS OR MOVEMENT OUTSIDE THE CONTROLLED AREA OR ROOM





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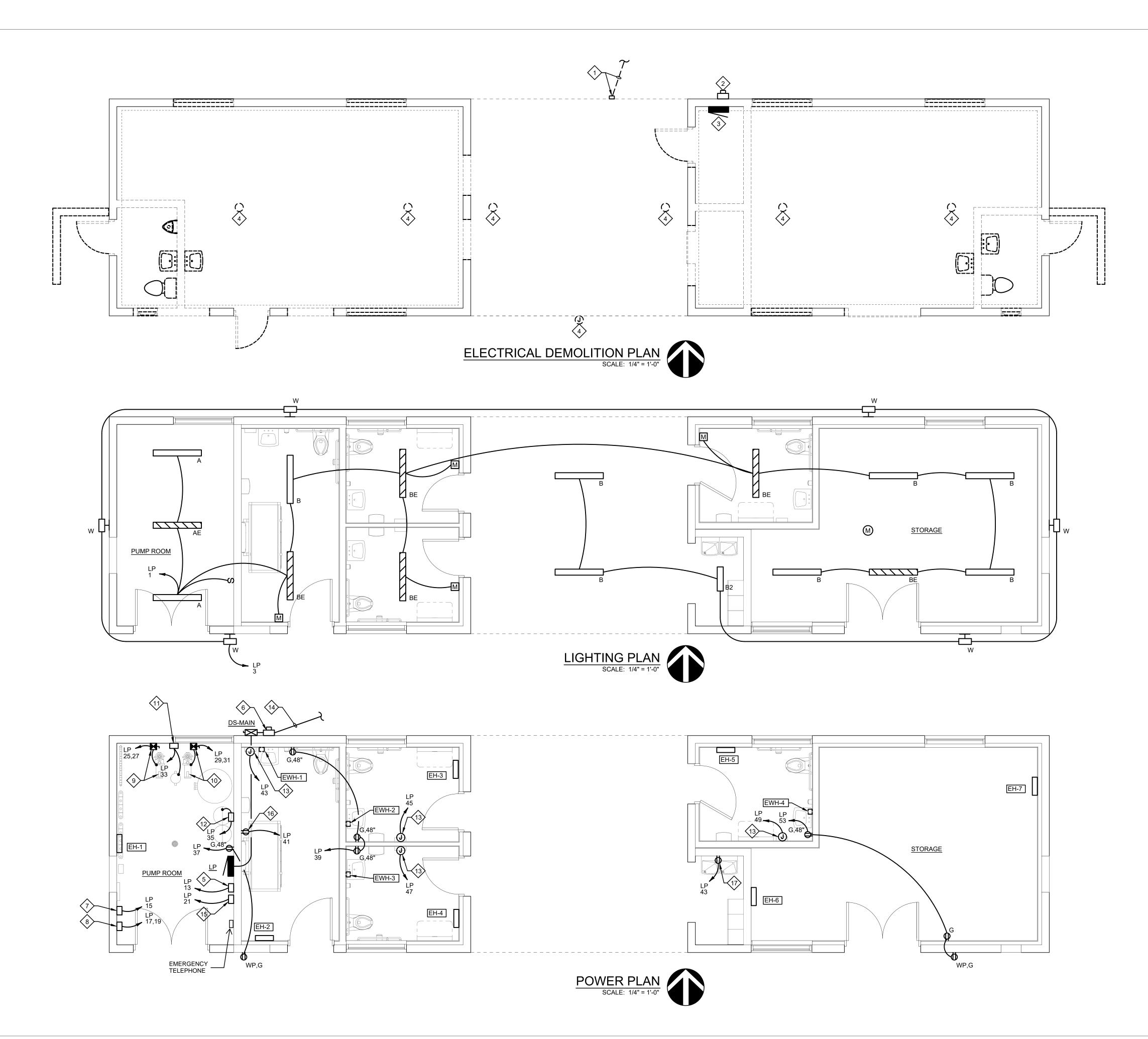
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♦ PLAN NOTES

- 1. REMOVE EXISTING OVERHEAD ELECTRICAL SERVICE FEEDER & ATTACHMENT CONNECTION.
- 2. REMOVE EXISTING UTILITY METER BASE.
- REMOVE EXISTING LOAD CENTER.
- 4. REMOVE EXISTING LIGHTING FIXTURE.
- 5. NEW TIME CLOCK #1. PROVIDE 120V ASTRONOMICAL, 4-CHANNEL TIME CLOCK TO BE INTERMATIC #ET2845C, OR EQUALS BY OTHERS FOR EXTERIOR LIGHTING CONTROLS.
- 6. NEW UTILITY METER, NEMA 3R.
- 7. NEW TIME CLOCK #2. PROVIDE 120V, 1-PHASE ASTRONOMICAL, 4-CHANNEL, NEMA 3R TIME CLOCK TO BE INTERMATIC #ET2845CR, OR EQUALS BY OTHERS FOR FEATURE PUMP CONTROLS.
- 8. NEW TIME CLOCK #3. PROVIDE 240V, 1-PHASE ASTRONOMICAL, 4-CHANNEL, NEMA 3R TIME CLOCK TO BE INTERMATIC #ET2845CR, OR EQUALS BY OTHERS FOR RE-CIRCULATING PUMP CONTROLS.
- 9. FEATURE PUMP 5HP, 240V, 1-PHASE, 6.72KW. WIRE THROUGH RAIN DECK TIMER BOX. PROVIDE 240, 1-PHASE MANUAL MOTOR STARTER - TO BE FRANKLIN CONTROLS SYSTEM #BAS-1P.
- 10. RE-CIRCULATING (FILTER) PUMP 3HP, 240V, 1-PHASE, 2.69KW. WIRE THROUGH TIME CLOCK #3. PROVIDE 240, 1-PHASE MANUAL MOTOR STARTER - TO BE FRANKLIN CONTROLS SYSTEM
- 11. PROVIDE 120V POWER TO UV SANITIZER.
- 12. PROVIDE 120V POWER TO CHEM CONTROLLER.
- 13. HAND DRYER 120V, 0.95KW. WIRE TO DEDICATED 120V, 20A GFCI RATED CIRCUIT BREAKER.
- 14. NEW UNDERGROUND ELECTRICAL SERVICE FEEDER & CONDUIT. SEE ONE LINE DIAGRAM AND ELECTRICAL SITE PLAN.
- 15. NEW TIME CLOCK #4. PROVIDE 120V, 1-PHASE ASTRONOMICAL, 2-CHANNEL, NEMA 3R TIME CLOCK TO BE INTERMATIC #ET2825CR, OR EQUALS BY OTHERS FOR EXHAUST FAN CONTROLS.
- 16. NEW MOTORIZED CHANGING TABLE 120V, 0.5KW. WIRE TO DEDICATED 120V, 20A GFCI RATED CIRCUIT BREAKER.
- 17. NEW WATER DRINKING FOUNTAIN 120V, 0.4KW. WIRE TO DEDICATED 120V, 20A GFCI RATED CIRCUIT BREAKER.



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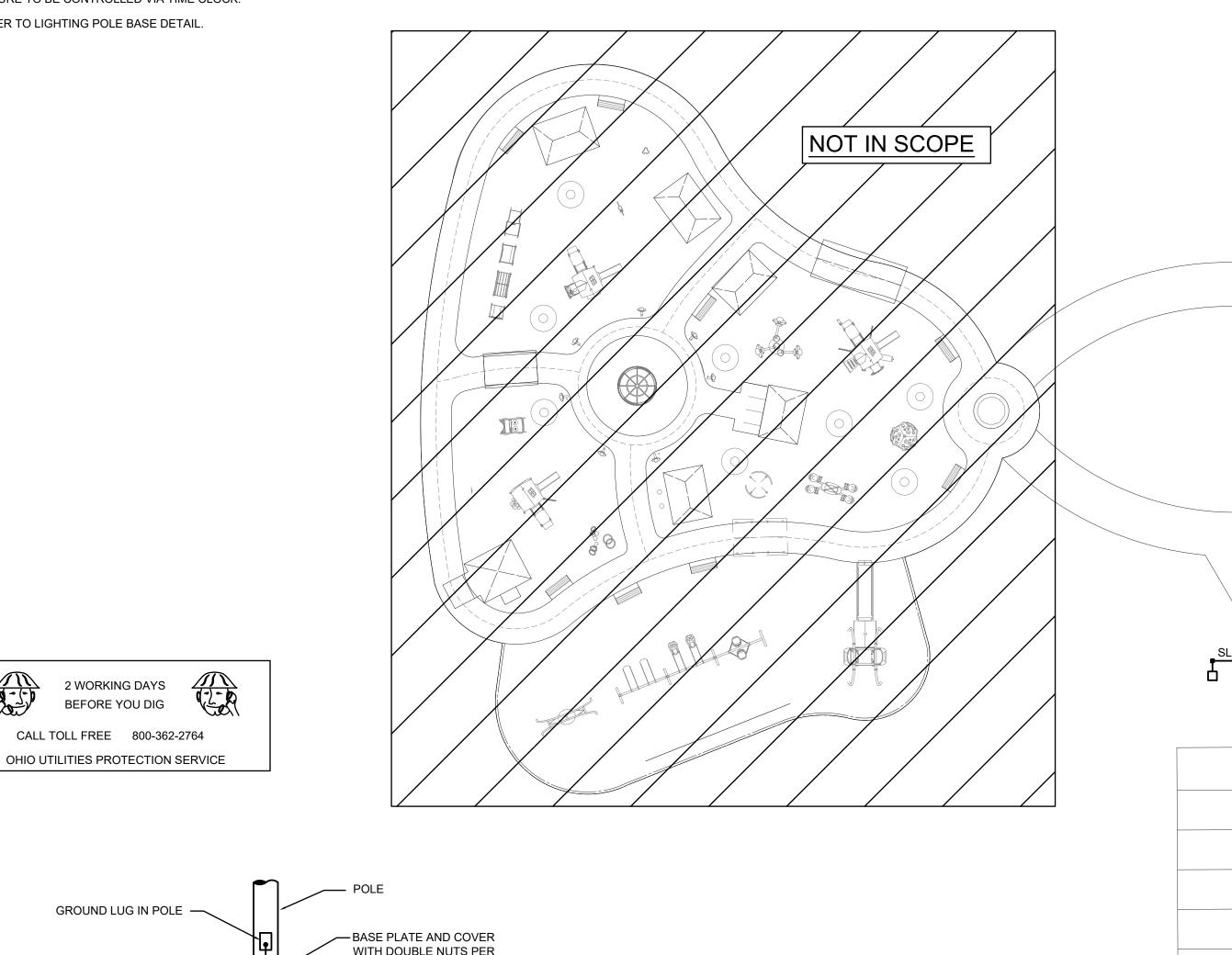
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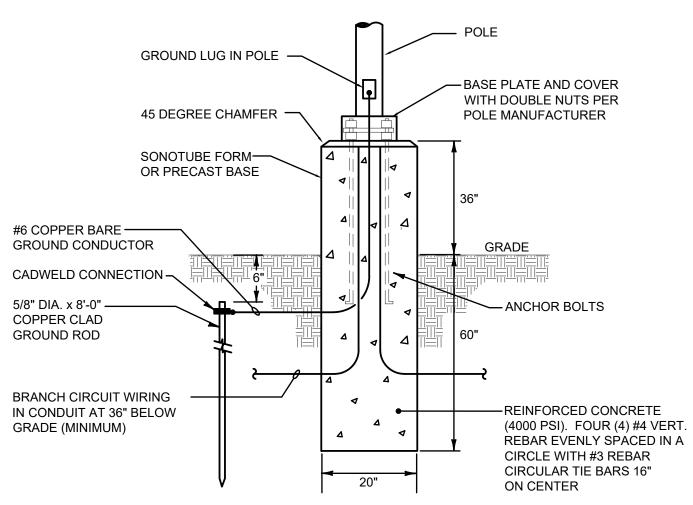
SITE LUMINAIRE SCHEDULE REMARKS

- 1. POLE THICKNESS AND WIND LOAD RATING TO BE SELECTED BY LUMINAIRE MANUFACTURER, RATED FOR A MINIMUM OF 100 MPH WIND LOAD.
- 2. ADJUST LUMINAIRE AIM ANGLE IN-FIELD AT NIGHT WITH OWNER'S REPRESENTATIVE.
- 3. FIXTURE TO BE CONTROLLED VIA TIME CLOCK.

2 WORKING DAYS

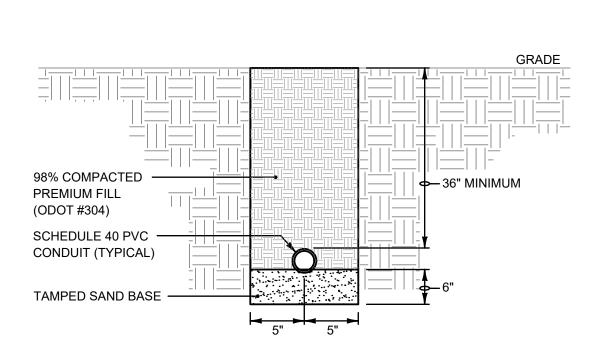
4. REFER TO LIGHTING POLE BASE DETAIL.





LIGHTING POLE BASE DETAIL

NOTE: POSITION EDGE OF BASE AT 30" MINIMUM FROM THE EDGE OF PAVEMENT OR CURB.



UNDERGROUND CONDUIT DETAIL - NON ENCASED

NOTE: PROVIDE 6" CONCRETE COVER WHEN ROUTED BELOW DRIVES AND PARKING AREAS.



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GROUNDING SYMBOL LEGEND

HORIZONTAL TEE CABLE TO CABLE CONNECTION. CADWELD OR IRREVERSIBLE CONNECTION.

 CABLE TO METAL SURFACE CONNECTION VIA IRREVERSIBLE CLAMP OR EXOTHERMIC WELD. CONNECTION TO BE MADE TO EQUIPMENT METAL FRAME, RAILING, STEEL STRUCTURE, ETC.

GENERAL SPLASH PAD **BONDING NOTES**

- A. SPLASHPAD SHALL HAVE AN EQUIPOTENTIAL BONDING GRID THAT CONFORMS TO ALL NEC 680 REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR SPLASHPAD SECTIONS AND CONSTRUCTIONS REQUIREMENTS. REFER TO THE SPLASHPAD MANUFACTURER'S DRAWINGS FOR ADDITIONAL BONDING AND GROUNDING REQUIREMENTS.
- C. ALL PARTS SHOWN SHALL BE BONDED TOGETHER AND CONNECTED TO COMMON BONDING GRID WITH #8 AWG MINIMUM SOLID COPPER AND IN ACCORDANCE WITH NEC 680. ALL BONDING CONNECTIONS SHALL BE MADE WITH UL LISTED BRASS, COPPER, OR COPPER ALLOY CONNECTIONS OR CLAMPS.
- D. ALL OF THE SPLASH PAD STRUCTURE'S METALLIC PARTS, INCLUDING THE METAL GUTTER AND WALL OF THE SPLASH PAD, COPING STONES AND SPLASH PAD DECK SHALL BE BONDED.
- METAL SHEATHED CABLES/RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS THAT ARE NOT SEPARATED FROM THE SPLASH PAD BY A PERMANENT BARRIER AND ARE LOCATED WITHIN 5' HORIZONTALLY OF THE SPLASH PAD'S INSIDE WALL, AND WITHIN 12' VERTICALLY ABOVE THE MAXIMUM WATER LEVEL SHALL BE BONDED.
- F. ALL METAL FITTINGS WITHIN, OR ATTACHED TO, THE SPLASH PAD STRUCTURE SHALL BE BONDED.
- G. ALL FORMING SHELLS AND MOUNTING BRACKETS OF LIGHTING FIXTURES SHALL BE BONDED, UNLESS A LISTED LOW-VOLTAGE LIGHTING SYSTEM IS USED THAT DOES NOT REQUIRE BONDING.
- H. PROVIDE BONDING REPORT BEFORE ODH FINAL INSPECTION.

\Diamond PLAN NOTES

NEW PANEL 'LP'

- NEW MAIN SERVICE DISCONNECT 'DS-MAIN'

→ NEW UTILITY METER

- 1. PROVIDE 1" UNDERGROUND PVC CONDUIT WITH PULL STRING STUBBED NEAR GAZEBO POST FOR RECEPTACLE POWER - SEE UNDERGROUND CONDUIT DETAIL. MARK LOCATION OF SPARE CONDUIT STUB-UP.
- 2. PROVIDE 1" UNDERGROUND PVC CONDUIT WITH PULL STRING STUBBED NEAR GAZEBO POST FOR FUTURE LIGHTING - SEE UNDERGROUND CONDUIT DETAIL.. MARK LOCATION OF SPARE CONDUIT STUB-UP.
- 3. PROVIDE 2" UNDERGROUND PVC CONDUIT WITH PULL STRING STUBBED FOR FUTURE RESTROOM POWER - SEE UNDERGROUND CONDUIT DETAIL. MARK LOCATION OF SPARE CONDUIT STUB-UP.
- 4. PROVIDE BONDING AND GROUNDING FOR NEW SPLASHPAD AND ASSOCIATED METAL EQUIPMENT - REFER TO THE GENERAL SPLASHPAD BONDING NOTES.
- 5. PROVIDE #8 BARE COPPER BONDING WIRING BETWEEN ALL METAL FEATURES TO A 3/4" DIAMETER x 10' LONG COPPER GROUND ROD IN SOIL, TIED INTO REBAR GRID.
- 6. PROVIDE 5/8" DIAMETER x 8' LONG COPPER GROUND ROD IN SOIL, TIED INTO REBAR GRID.
- 7. PROVIDE 1/2" UNDERGROUND PVC CONDUIT AND LOW VOLTAGE WIRING FROM TIMER BOX TO ACTIVATOR POST. INSTALL PER SPLASH PAD MANUFACTURER REQUIREMENTS.
- 8. SPLASH PAD ACTIVATOR POST (BY SPLASH PAD VENDOR) -TYPICAL OF THREE.
- 9. PROVIDE E-STOP PUSH BUTTON FOR SPLASH PUMPS AND SOLENOID VALVES - MOUNTED AT BUILDING EXTERIOR. COORDINATE SHUT-OFF OPERATIONS WITH SPLASH PAD
- 10. PROVIDE 3/4" UNDERGROUND PVC CONDUIT TO FLAG POLE LIGHTING - SEE UNDERGROUND CONDUIT DETAIL. WIRING TO BE 2-12 AWG & 1-12 AWG GND. WIRE THROUGH AUTOMATIC TIME CLOCK #1 CONTROLS.
- 11. PROVIDE 3/4" UNDERGROUND PVC CONDUIT FOR SITE LIGHTING - SEE UNDERGROUND CONDUIT DETAIL. WIRING TO BE 2-10 AWG & 1-10 AWG GND.WIRE THROUGH AUTOMATIC TIME CLOCK #1 CONTROLS.
- 12. EXISTING UTILITY POLE.
- 13. EXISTING POLE MOUNTED TRANSFORMER TO BE REMOVED AND REPLACED BY LOCAL UTILITY COMPANY. SEE ONE LINE DIAGRAM.
- 14. EXISTING OVERHEAD TRANSFORMER SECONDARY FEEDERS TO BE REMOVED AND REPLACED WITH NEW BY ELECTRICAL CONTRACTOR - SEE ONE LINE DIAGRAM. FINAL TRANSFORMER CONNECTION TO BE BY LOCAL UTILITY COMPANY. E.C. TO COORDINATE ALL INSTALLATION REQUIREMENTS WITH LOCAL UTILITY COMPANY.
- 15. NEW UNDERGROUND FEEDER & CONDUIT SEE ONE LINE DIAGRAM.

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PLUMBING FIXTURE SCHEDULE VENT CW **FIXTURE** WASTE HW MANUFACTURER, MODEL NUMBER, AND DESCRIPTION WC-1 FLOOR MOUNTED FIXTURE: AMERICAN STANDARD CADET CHAIR HEIGHT PRESSURE ASSISTED TOILET 2467.016 OR EQUAL. FLOOR MOUNTED TANK TYPE, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET ACTION, 1.6 GALLONS PER FLUSH. 16-1/2 INCH BOWL HEIGHT. (PROVIDE WITH TANK COVER LOCKING DEVICE) TANK TYPE SEAT: WHITE, HEAVY DUTY COMMERCIAL GRADE, OPEN FRONT, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS BY CHURCH MODEL 9500SSCT OR APPROVED EQUAL. WATER CLOSET ROUGH-IN DIMENSION: 12 INCH ADA SUPPLIES: PROVIDE CHROME PLATED RIGID SUPPLY WITH LOOSE KEY STOP, REDUCERS AND ESCUTCHEONS. PROVIDE FLUSH CONTROL LEVER ON WIDE SIDE OF TOILET (AWAY FROM WALL) 1-1/2" L-1 LAVATORY 1-1/2" 1/2" FIXTURE: AMERICAN STANDARD DECORUM 9024.004EC, 20 INCH x 18 INCH WALL-HUNG LAVATORY WITH EVERCLEAN WITH 4 INCH CENTERS. WALL MOUNTED FAUCET: AMERICAN STANDARD MODEL 1340.227, METERING CENTERSET, 0.5 GPM, VANDAL-RESISTANT NON-AERATED SPRAY. SUPPLIES: FURNISH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS, REDUCERS, AND ESCUTCHEONS. INSULATED FOR ADA COMPLIANCE. DRAIN: STAINLESS STEEL NON-REMOVABLE STRAINER WITH 1-1/4 INCH TAILPIECE. CHICAGO FAUCET NO. 327. TRAP: CHROME PLATED CAST BRASS ADJUSTABLE "P" TRAP WITH CLEANOUT AND 17 GAUGE WASTE TO WALL WITH ESCUTCHEON. INSULATED AND OFFSET TO MEET ADA COMPLIANCE. PROVIDE PLUMBREX MODEL X4114 TRAP COVER AND MODEL X4333 PRO EXTREME TRAP WRAP. ELECTRIC WATER 1-1/4" 1-1/4" 1/2" EWC-1 FIXTURE: OUTDOOR RATED, VANDAL RESISTANT BI-LEVEL VERSACOOLER, NON-REFRIGERATED, OUTDOOR FILTER, WALL MOUNTED, BARRIER FREE, ELECTRIC WATER COOLER HAVING MINIMUM COOLER CAPACITY OF 8.0 GPH OF 50 DEGREE F WATER AT 90 DEGREE F AMBIENT AND 80 DEGREE INLET WATER WITH A SINGLE VANDAL RESISTANT PUSH BUTTON. FURNISH BRACKET FOR WALL MOUNTING AND FLEXIBLE POWER CABLE WITH THREE PRONGED GROUNDED PLUG. FURNISH APRON FOR UPPER UNIT. FINISH: STAINLESS STEEL TOP. CABINET FINISH AS SELECTED BY ARCHITECT. MANUFACTURER: OASIS MODEL PGVDFACSL 507644 OR SIMILAR BY ELKAY ROUGH-IN: PROVIDE STOP VALVE, CAST BRASS P-TRAP, AND 17 GAUGE TAILPIECE. MOUNTING HEIGHT: TO ACCOMMODATE WHEELCHAIR USERS.

NOTE: PROVIDED BY PLUMBING CONTRACTOR.

						PLUMBING EQUIPMENT SCHEDULE
MARK	EQUIPMENT	WASTE	VENT	HW	CW	MANUFACTURER, MODEL NUMBER, AND DESCRIPTION
FD-1	FLOOR DRAIN	4"	-	-	-	ZURN FD-2330, HEAVY-DUTY ADJUSTABLE FLOOR DRAIN, IT CONSISTS OF A PVC OR ABS BODY WITH STEEL-THREADED INSERTS, COMPLETE WITH A CAST IRON CLAMP COLLAR, LEVELING FRAME AND HEAVY DUTY GRATE WITH SEDIMENT BUCKET OPTION OR EQUAL.
FS-1	FLOOR SINK	4"	-	-	-	SQUARE FLOOR SINK WITH 3/4 GRATE: CONSTRUCTED OF PVC BODY WITH PVC HUB BOTTOM OUTLET WITH STRAINER. SIOUX CHIEF 861-3P OR APPROVED EQUAL.
TP-1	TRAP SEALER				-	SURE SEAL MODEL SS3009V & SS4009V INLINE FLOOR DRAIN TRAP SEAL. COMMERCIAL GRADE UV AND OZONE RESISTANT ABS PLASTIC HOUSING WITH PROPRIETARY EPDM RUBBER DIAPHRAGM AND SOFT RUBBER SEALING GASKET. FLOOR RATING ASSE - 1072 AF-GW.
FCO	FLOOR CLEANOUT	-	-	-	-	FLOOR CLEANOUT: DUCO CAST IRON CLEANOUT WITH ROUND NICKEL BRONZE TOP. ZURN LC-CR05NI.
ECO	EXTERIOR CLEANOUT	-	-	-	-	ECO-1: EXTRA HEAVY CAST IRON ACCESS HOUSING WITH ADJUSTABLE ANCHOR FLANGE AND EXTRA HEAVY SECURED NON-SKID CAST IRON COVER WITH VANDAL PROOF SCREWS. CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRASS CLEANOUT PLUG. SMITH FIGURE 4250 OR SIMILAR BY MIFAB OR ZURN. FULL SIZE OF PIPE AND NOT LESS THAN 4 INCHES FOR LARGER SIZES.
HB-1	HOSE BIBB NON-FREEZE	-	-	-	3/4"	FITTING: WOODFORD MODEL 101 OR APPROVED EQUAL. ANTI-SIPHON WALL FAUCET PROTECTED BY AN CHECK TO PROVIDE ANTI-SIPHON PROTECTION.
WH-1	WALL HYDRANT NON-FREEZE	-	-	-	3/4"	FITTING: WOODFORD MODEL 68 OR APPROVED EQUAL. FREEZELESS WALL HYDRANT PROTECTED BY AN INTEGRAL COVER, TEE KEY PREVENTS UNAUTHORIZED USE AND DRAINS AUTOMATICALLY.
	WATER HAMMER ARRESTORS	SIZ		I STANDAI TABLE 5	RD -	PERMANENTLY SEALED BELLOWS OR EXPANDING CHAMBER TYPE DEVICE FOR CONTROL OF WATER HAMMER, P.D.I.APPROVED. SMITH HYDROTROL OR SIMILAR BY JOSAM, MIFAB, WADE, ZURN, OR EQUAL.
	REDUCED PRESSURE REFER TO PLUMB. PLAI BACKFLOW PREVENTOR FOR SIZING				PLAN	RPZ: (REDUCED PRESSURE BACKFLOW PREVENTOR) 1-1/2 INCH, THREADED ENDS, STAINLESS STEEL BALL VALVE SHUT-OFFS, INTERNAL RELIEF VALVE, STANDARD BALL TYPE TEST COCKS. ZURN MODEL 975XL3 OR EQUAL. MUST MEET OHIO PLUMBING CODE REQUIREMENTS.

NOTE: PROVIDED BY PLUMBING CONTRACTOR, UNLESS OTHERWISE NOTED

	(ELECTRIC) WATER HEATER SCHEDULE											
MARK	MARK MANUFACTURER MODEL KW INPUT (gallons) STORAGE CAPACITY TEMPERATURE RECOVERY GPH TEMPERATURE RISE (degrees F) VOLTAGE EXPANSION TANK REMARKS											
EWH-1	EWH-1 EEMAX AMO12240T 8.7 - 105 - 65 208V-1PH											

NOTE: MANUFACTURER EEMAX, BOSCH, AND A.O. SMITH OR EQUAL.

			ELECT	RIC UN	IT HEA	ATER SCHEDU	LE			
MARK	MANUFACTURER	MODEL	TYPE	BTU/HR	KW	DIMENSIONS H x W x D (IN)	VOLTAGE	AMPS	WEIGHT	REMARKS
EH-1	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	13,649	4.0	18-1/4 x 14-3/8 x 3-7/8	208-1PH	19.2	25	1-5
EH-2	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	10,236	3.0	18-1/4 x 14-3/8 x 3-7/8	208-1PH	10.8	25	
EH-3	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	5,118	1.5	18-1/4 x 14-3/8 x 3-7/8	208-1PH	7.2	25	
EH-4	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	5,118	1.5	18-1/4 x 14-3/8 x 3-7/8	208-1PH	7.2	25	
EH-5	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	5,118	1.5	18-1/4 x 14-3/8 x 3-7/8	208-1PH	7.2	25	
EH-6	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	10,236	3.0	18-1/4 x 14-3/8 x 3-7/8	208-1PH	10.8	25	
EH-7	BERKO	FRC4020F	HEAVY DUTY WALL HEATER	10,236	3.0	18-1/4 x 14-3/8 x 3-7/8	208-1PH	10.8	25	

- SURFACE MOUNTED
- SECURITY GRILLE 3. 5 - YEAR WARRANTY
- 4. INTEGRAL TAMPER RESISTANT THERMOSTAT
- ON/OFF SWITCH FOR MAINTENANCE
- FIELD CONVERTIBLE TO FROM HIGHER WATTAGE TO SCHEDULED WATTAGE

	FAN SCHEDULE											
MARK	ARK MANUFACTURER MODEL TYPE CFM E.S.P. (IN W.C.) RPM MOTOR HP VOLTAGE DRIVE WEIGHT SONES (@ 1/8") REMARKS											
EF-1	соок	GC-642	CENTRIFUGAL	530	0.375	1500	164 W	110/1/60	DIRECT	26	4	1-3
EF-2	EF-2 COOK GC-542 CENTRIFUGAL 310 0.375 1500 113 W 110/1/60 DIRECT 26 5.5 1-3											

INCLUDE DISCONNECT SWITCH, AND BACKDRAFT DAMPER

- TIMECLOCK CONTROL (SUMMER SEASON)
- ISOLATORS 4. FANS OFF DURING WINTER SEASON

PLUMBING ABBREVIATIONS

ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION ARCH ARCHITECT BELOW FINISHED FLOOR BFF CW DOMESTIC COLD WATER DEGREES FAHRENHEIT DIA DIAMETER E.C. ELECTRICAL CONTRACTOR ECO EXTERIOR CLEANOUT FLOOR DRAIN G.C. GENERAL CONTRACTOR GPM GALLONS PER MINUTE HORSEPOWER DOMESTIC HOT WATER INCHES WATER COLUMN ΚW KILOWATT LAVATORY MECHANICAL CONTRACTOR M.C. MINIMUM NATIONAL PIPE THREAD OHIO PLUMBING CODE PLUMBING CONTRACTOR

PΗ PVC POLYVINYL CHLORIDE PLASTIC

TYP. **TYPICAL** VOLTS VENT THROUGH ROOF

QUANTITY

HVAC ABBREVIATIONS

WATER CLOSET

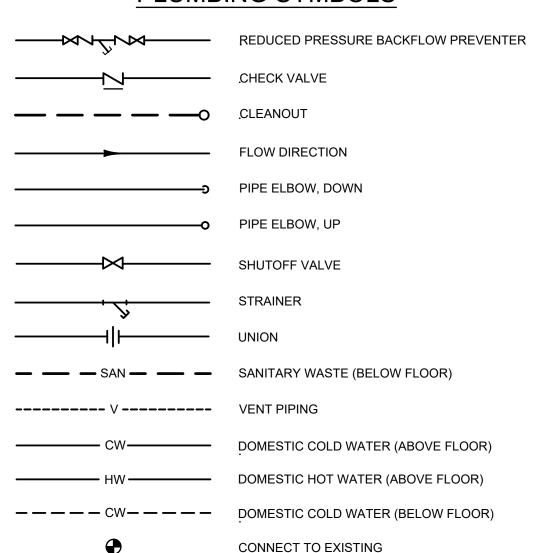
ABOVE FINISHED FLOOR BTU BRITISH THERMAL UNITS CFH CUBIC FEET PER HOUR CUBIC FEET PER MINUTE EXHAUST AIR EΑ ETR EXISTING TO REMAIN FA FREE AREA FEET PER MINUTE FT FEET KW KILOWATT THOUSAND BRITISH THERMAL UNITS (BTU) MCA MINIMUM CIRCUIT AMPACITY MAXIMUM OVERCURRENT PROTECTION NATIONAL ELECTRIC CODE NATIONAL FIRE PROTECTION ASSOCIATION OUTSIDE AIR

OUTSIDE AIR TEMPERATURE

PHASE

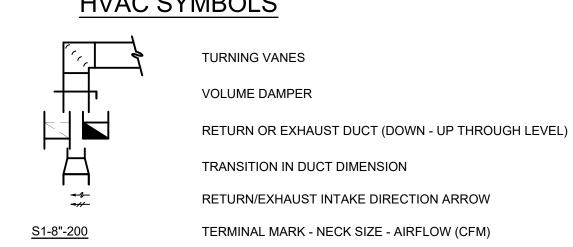
QUANTITY REVOLUTIONS PER MINUTE FOR CONTINUATION REFER _____1-1/2 INCH ASSE #1013 REDUCED

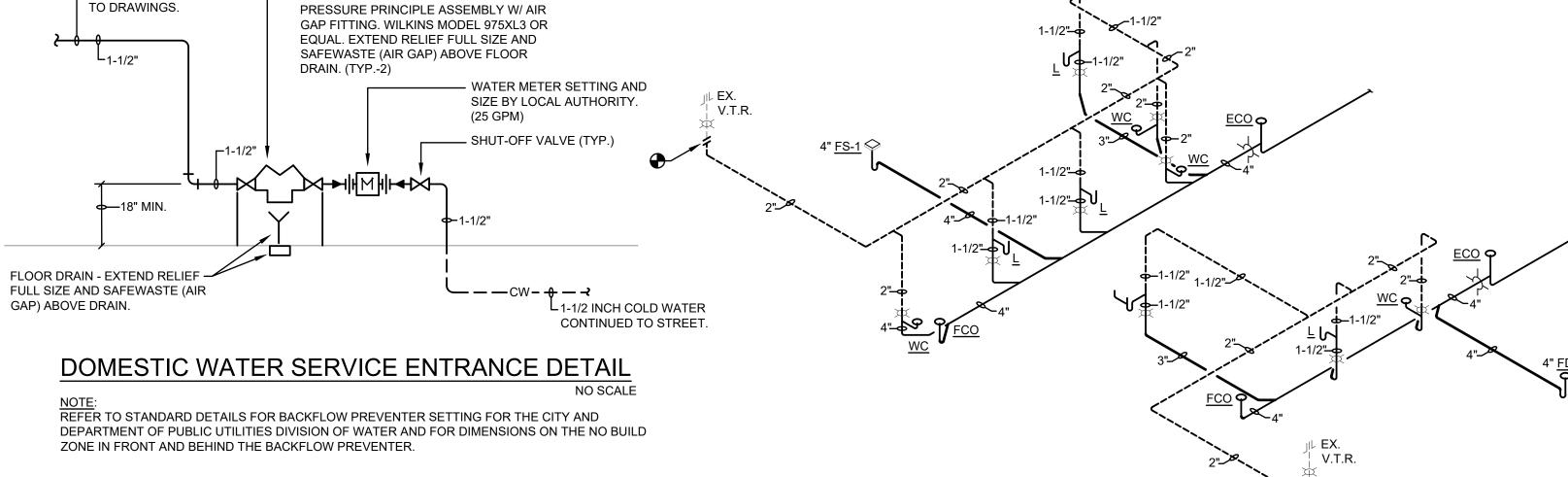
PLUMBING SYMBOLS



HVAC SYMBOLS

SANITARY STACK DIAGRAM





	REGISTER, GRILLES, AND DIFFUSER SCHEDULE									
MARK	RK MANUFACTURER MODEL DESCRIPTION MATERIAL FINISH FRAME TYPE MAX. NC									
ER-1	ER-1 TITUS 23RL RETURN GRILLE ALUMINUM WHITE SURFACE MOUNTED 25									

NOTE:

1. BLADES PARALLEL TO LONG DIMENSION.

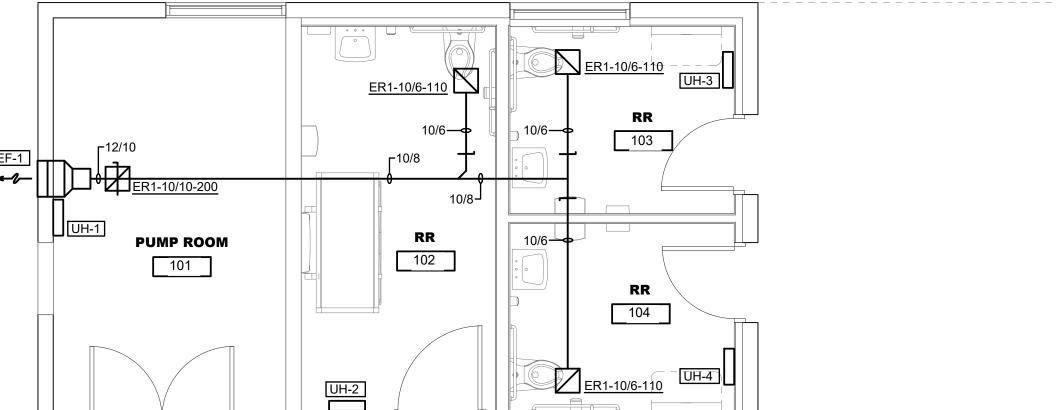
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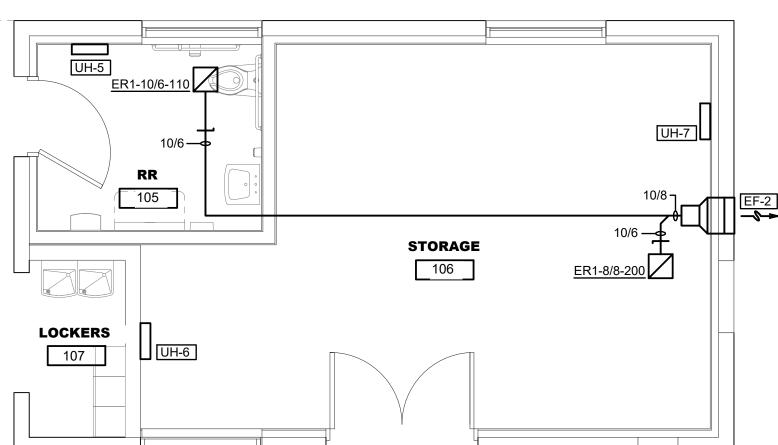
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CONTRACT NO: 242425 SHEET M0.01



IMPROVEMEN





HVAC PLAN

SCALE: 1/4" = 1'-0"

NOTE:
REFER TO SHEET M0.01 FOR ALL HVAC EQUIPMENT SCHEDULES.

GENERAL NOTES (PLUMBING)

- A. SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE.
- B. CUT FLOOR, WALL, AND CEILING CONSTRUCTION FOR PENETRATIONS TO ACCOMMODATE NEW WORK. COORDINATE WITH GENERAL TRADES. PATCH CONSTRUCTION TO MATCH, OR TO SATISFACTION OF ARCHITECT
- C. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND AUTHORITY HAVING JURISDICTION.
- D. PLUMBING WORK SHALL BE COMPLETED BY AN INDIVIDUAL OR BUSINESS THAT IS LICENSED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD.
- E. ALL FIXTURES SHALL BE PROVIDED WITH SHUT-OFF BALL VALVES ON SUPPLY LINES.
- ALL PUBLIC HAND WASHING SINKS SHALL BE SUPPLIED WITH TEMPERED WATER WITH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
- G. NO PIPING OR EQUIPMENT SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
- H. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- ALL PLUMBING WORK IS TO RUN IN A NEAT AND PROFESSIONAL MANNER, WITH THE AESTHETICS OF THE FACILITY OF PARAMOUNT IMPORTANCE. ALL ROUGH-IN WORK TO BE HIDDEN WITHIN WALLS AND ABOVE CEILING UNLESS OTHERWISE NOTED.
- J. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.
- FURNISH ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES OR EQUIPMENT ARE CONCEALED BEHIND A NON ACCESSIBLE CEILING OR WALL. FURNISH ACCESS DOORS TO GENERAL CONTRACTOR FOR INSTALLATION.

♦ DEMOLITION PLAN NOTES

- 1. EXISTING INCOMING WATER SERVICE AND WATER METER ASSOCIATED PIPING FROM STREET TO BE REMOVED PREPARE PIPE END AT STREET FOR NEW CONNECTION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.
- EXISTING VENT THROUGH ROOF TO REMAIN. REMOVE ALL VENT PIPING WITHIN BUILDING TO BELOW ROOF AND PREPARE PIPE END FOR NEW CONNECTION.
- 3. REMOVE SOIL STACK, CAP FLUSH WITH FLOOR AND ABANDON SANITARY SEWER BELOW SLAB.
- 4. DISCONNECT AND REMOVE EXISTING FIXTURE AND ALL ASSOCIATED PIPING.
- 5. REMOVE SHOWER HEAD, VALVE, AND ALL ASSOCIATED PIPING.
- 6. REMOVE EXISTING FLOOR DRAIN, CAP AND ABANDON EXISTING SANITARY SEWER SYSTEM. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.

NEW PLAN NOTES

- 1. EXTEND COLD WATER SERVICE BELOW GRADE AND CONNECT TO EXISTING WATER MAIN AT STREET.
- 2. 1-1/2" COLD WATER SERVICE SLEEVED AND SEALED UP THROUGH SLAB AND PROVIDE MAIN SHUT-OFF VALVE. BACKFLOW PREVENTER TO MEET ASSE STANDARD 1013 AND WATER PRESSURE WITHIN BUILDING TO COMPLY WITH OHIO PLUMBING CODE. REFER TO DETAIL ON SHEET M0.01.
- 3. 1-1/4" COLD WATER DOWN IN WALL TO BELOW SLAB AND PROVIDE 3/4" COLD WATER BRANCH PIPE ABOVE FINISHED FLOOR TO ROUTE WITHIN WALL TO SERVE FIXTURES.
- 4. SLEEVE AND SEAL 1 INCH COLD WATER UP FROM BELOW SLAB. PROVIDE 3/4" AND 1" BRANCH PIPING ABOVE FINISHED FLOOR TO ROUTE WITHIN WALL TO SERVE FIXTURES.
- 5. 1/2" COLD WATER BRANCH PIPE TO SERVE FIXTURE.
- 6. 1/2" COLD WATER BRANCH PIPE TO SERVE FIXTURE AND EWH-1. CONNECT 1/2" HOT WATER FROM EWH-1 TO LAV-1
- 7. 3/4" COLD WATER DOWN ALONG WALL WITH SHUT-OFF VALVE IN DROP. SLEEVE AND SEAL 30 INCHES ABOVE OUTSIDE GRADE TO SERVE WALL HYDRANT.
- 8. 1" COLD WATER DOWN ALONG WALL WITH SHUT-OFF VALVE IN DROP. SLEEVE AND SEAL TO BELOW SLAB.
- 9. 1" COLD WATER PIPE BELOW GRADE AND TO EXTEND BEYOND CONCRETE PAD TO GRASSY AREA AND CAPPED FOR FUTURE.
- 10. 1" COLD WATER UP ALONG WALL. PROVIDE 3/4" HOSE BIBB AND CONTINUE UP TO BELOW CEILING.
- 11. 3/4" COLD WATER PIPING DOWN ALONG WALL TO BELOW SLAB WITH SLEEVE. PROVIDE SMALL 1/2" BACKFLOW PREVENTER.
- 12. 3/4" COLD WATER CONTINUED BELOW GRADE TO AUTOFILL CONNECTION ON RESERVOIR TANK. REFER TO TYPICAL DRAINING SECTION ON SHEET SP2.3
- 13. 4" SANITARY SEWER BELOW GRADE TO EXTEND TO RESERVOIR TANK. REFER TO TYPICAL DRAINING SECTION ON SHEET SP2.3

GENERAL NOTES (HVAC)

- 1. CONDUCT FIELD SURVEY OF EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID AND START OF WORK. NO ADDITIONAL PAYMENTS WILL BE MADE ON CLAIMS THAT ARISE FROM LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- 2. COORDINATE SCHEDULE OF WORK REQUIRED IN OCCUPIED AND OPERATING AREAS WITH OWNER PRIOR TO STARTING SUCH WORK.
- SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE IN WRITING.
- 4. PROVIDE ACCESS PANELS TO BALANCE DAMPERS IN EXHAUST SYSTEM.
- CUT FLOOR, WALL, AND CEILING CONSTRUCTION FOR PENETRATIONS TO ACCOMMODATE NEW WORK.
 COORDINATE WITH GENERAL TRADES. PATCH CONSTRUCTION TO MATCH, OR TO SATISFACTION OF ARCHITECT AND OWNER.
- 6. COORDINATE ROUTING OF NEW DUCTWORK WITH EXISTING BUILDING CONDITIONS AND WITH WORK OF OTHER TRADES. PROVIDE CHANGES IN LOCATION, DIRECTION, OFFSETS, AS MAY BE REQUIRED, WHETHER SPECIFICALLY INDICATED OR NOT, AND AT NO ADDITIONAL COST TO THE OWNER. ALL DUCTWORK SHALL BE ABOVE THE DRYWALL CEILING.
- 7. COORDINATE AIR DISTRIBUTION DEVICE LOCATIONS WITH FINAL REFLECTED CEILING PLAN.
- 8. THE DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- 9. UNLESS OTHERWISE NOTED, DUCTWORK SERVING A SINGLE DIFFUSER, GRILLE OR REGISTER IS TO BE FULL NECK SIZE OF AIR DISTRIBUTION DEVICE FROM BRANCH TAKE-OFF TO DEVICE CONNECTION.
- 10. BUILDING SHALL BE HEATED IN WINTER SEASON. EXHAUST SHALL REMAIN OFF IN WINTER.

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IMPROVEMENTS

COMMUNITY PARK II
VILLAGE OF JEFFERSON
262 E JEFFERSON ST
MECHANICAL PLANS

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SCALE: As indicated

CONTRACT NO:

242425

SHEET M1.01

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- 1.1 SUBMITTALS
 - PRODUCT DATA: SUBMIT VALVES AND GAGES.
- 1.2 LEAD CONTENT OF DRINKING WATER PIPE AND FITTINGS:
 - PIPE, PIPE FITTINGS, JOINTS, VALVES FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES WILL COMPLY WITH THE REQUIREMENTS OF NSF 372 AND SHALL HAVE A WEIGHTED LEAD CONTENT OF 0.25 PERCENT LEAD OR LESS.

PART 2 PRODUCTS

- 2.1 PIPING
 - SANITARY SEWER AND VENT BURIED: SERVICE WEIGHT CAST IRON, TYPE DWV COPPER TUBE, ABS TYPE DWV, SOLID WALL PVC TYPE
 - SANITARY SEWER AND VENT ABOVE GRADE: SERVICE WEIGHT CAST IRON, TYPE DWW COPPER TUBE, ABS TYPE DWW, PVC TYPE DWV. DO NOT USE PVC OR ABS PIPING IN RETURN AIR PLENUMS.
 - DOMESTIC WATER BURIED WITHIN 5 FEET OF BUILDING: DUCTILE IRON PIPE: AWWA C151, FITTINGS: AWWA C110, DUCTILE OR GRAY IRON, STANDARD THICKNESS. JOINTS: AWWA C111, RUBBER GASKET WITH 3/4 INCH DIAMETER RODS.
 - DOMESTIC WATER BURIED INSIDE BUILDING: TYPE K COPPER TUBE, ANNEALED WITHOUT FITTINGS.
 - DOMESTIC WATER ABOVE GRADE: TYPE L COPPER TUBE, HARD DRAWN, SOLDERED JOINTS WITH 95-5 SOLDER, OR COPPER PRESS FITTINGS CONFORMING TO ASME B16.18 CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE WITH EPDM O-RING SEALS. COMPRESSION TYPE JOINTS MADE WITH MANUFACTURER'S

2.2 VALVES

- BALL VALVES
 - DOMESTIC WATER: 3 INCHES AND SMALLER, 150 SWP, 600 WOG, TWO PIECE BODY, THREADED ENDS, ALL BRONZE CONSTRUCTION, TEFLON SEATS, CHROME PLATED SOLID BRONZE BALL, CONVENTIONAL PORT, BLOWOUT PROOF STEM, LEVER HANDLE.
- SPRING LOADED CHECK VALVES: IRON BODY, BRONZE TRIM, STAINLESS STEEL SPRING, RENEWABLE COMPOSITION DISC.
- 2.3 GAGES
 - PRESSURE GAGES: STEEL OR ALUMINUM CASE, 4-1/2 INCH DIAMETER, ONE PERCENT (1%) MID-SCALE ACCURACY.
- 2.4 PIPE HANGERS
 - ALL SERVICES: CLEVIS TYPE CONFORMING TO MSS TYPE 1.
 - UPPER ATTACHMENTS: COMPATIBLE WITH TYPE OF STRUCTURE BEING USED. AT STEEL JOIST LOCATIONS ATTACH HANGERS TO TOP CHORD OF JOISTS.
- 2.5 PLUMBING IDENTIFICATION
 - VALVE TAGS: BRASS WITH STAMPED LETTERS AND BRASS "S" HOOKS. PROVIDE TYPE WRITTEN SCHEDULE OF VALVE TAGS AND LOCATIONS TO OWNER AT COMPLETION OF PROJECT.
 - PIPING IDENTIFICATION: SNAP ON PLASTIC MARKERS WITH SYSTEM NAME AND FLOW DIRECTION.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - PROVIDE DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
 - REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.
 - INSTALL BALL VALVES FOR SHUT OFF APPLICATIONS (2 INCH AND SMALLER) IN DOMESTIC WATER SYSTEMS.
 - INSTALL BALL VALVES FOR THROTTLING OR BYPASS APPLICATIONS
 - IN DOMESTIC WATER SYSTEMS. INSTALL PRESSURE GAGES WITH GAGE COCK.
 - PROVIDE 3/4 INCH BALL DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING, BASES OF VERTICAL RISERS, AND AT EQUIPMENT.
 - CLEAN AND TEST DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH OHIO PLUMBING CODE.
 - TEST SANITARY AND VENT PIPING IN ACCORDANCE WITH OHIO PLUMBING CODE.
 - 1. SPACE, BETWEEN SLEEVE AND WALL OPENINGS.

SECTION 22 07 00 - PLUMBING INSULATION

PART 1 GENERAL

- 1.1 SUBMITTALS
 - PRODUCT DATA: REQUIRED
 - SAMPLES: NOT REQUIRED.

PART 2 PRODUCTS

- 2.1 PIPE INSULATION
- A. GLASS FIBER: RIGID MOLDED, NONCOMBUSTIBLE WITH VAPOR BARRIER JACKET.
- HYDROUS CALCIUM SILICATE: RIGID MOLDED WHITE; ASBESTOS FREE.
- CELLULAR FOAM: FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED OR
- PIPE INSULATION RATED FOR 0-1000 DEGREES F. WITH A "K" FACTOR OF 0.24 AT A MEAN TEMPERATURE OF 100 DEGREES F. REFER TO SCHEDULE FOR INSULATION REQUIRED THICKNESS.
- INSULATION SHALL NOT CONTAIN ANY PBDE (POLYBROMINATED DIPHENL ETHERS) FLAME RETARDANTS.
- JACKETS
 - PVC PLASTIC: ONE PIECE MOLDED TYPE FITTING COVERS AND SHEET MATERIAL, OFF-WHITE COLOR.
 - 2. ALUMINUM JACKET: SHEET, SMOOTH FINISH.

PART 3 EXECUTION

3.1 INSTALLATION

3.2 SCHEDULES

- A. PIPING INSULATION
- PROVIDE COLD PIPES WITH VAPOR BARRIER JACKETS.
 - INSULATE COMPLETE SYSTEM.

2. DOMESTIC COLD WATER

			INSULATION
		PIPE SIZE	THICKNESS
A.	PIPING INSULATION	INCH	INCH
	1. DOMESTIC HOT WATER SUPPLY	UP TO	1.0 1.0

SECTION 22 30 00 - PLUMBING EQUIPMENT

PART 1 GENERAL

- 1.1 SUBMITTALS
 - PRODUCT DATA: REQUIRED. SUBMIT EACH TYPE OF PLUMBING SPECIALTY.

PART 2 PRODUCTS

- 2.1 PLUMBING DRAINAGE SPECIALTIES
- REFER TO MECHANICAL DRAWINGS FOR PLUMBING DRAINAGE SPECIALTIES.
- 2.2 PLUMBING SUPPLY SPECIALTIES
 - REFER TO MECHANICAL DRAWINGS FOR PLUMBING SUPPLY SPECIALTIES.
- 2.3 PLUMBING EQUIPMENT
 - REFER TO MECHANICAL DRAWINGS FOR PLUMBING EQUIPMENT SPECIALTIES.

PART 3 EXECUTION

3.1 INSTALLATION

- INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON ALL FLUSH-VALVE BRANCH WATER PIPING BEFORE LAST FIXTURE TAKE-OFF AND AS RECOMMENDED BY MANUFACTURER.
- INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.

SECTION 22 40 00 - PLUMBING FIXTURES

PART 1 GENERAL

- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED. SUBMIT EACH TYPE OF PLUMBING FIXTURE AND TRIM.

PART 2 PRODUCTS

- 2.1 PLUMBING FIXTURES
 - A. SEE DRAWINGS FOR THE SCHEDULE OF PLUMBING FIXUTRES.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - INSTALL EACH FIXTURE WITH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES WITH SCREWDRIVER STOPS, REDUCERS, AND ESCUTCHEONS.
 - SEAL SPACE BETWEEN PLUMBING FIXTURES AND WALL OR FLOOR WITH SILICONE SEALANT TO PROVIDE WATERTIGHT INSTALLATION.
 - INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.

SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 1 GENERAL

- 1.1 SUBMITTALS
 - A. FINAL REPORT: REQUIRED
- 1.2 REPORT FORMS: AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE
- 1.3 AIR HANDLING SYSTEMS: ADJUST FANS AND AIR DISTRIBUTION OUTLETS AND INLETS AIRFLOWS TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN.

SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC

PART 1 GENERAL

- 1.1 SYSTEM DESCRIPTION
 - DESIGN REQUIREMENTS: ELECTRIC SYSTEM INCLUDING CONTROL DEVICES, ACTUATORS, AND ELECTRIC ACCESSORIES.

1.2 SUBMITTALS

- A. PRODUCT DATA: REQUIRED.
- SHOP DRAWINGS: REQUIRED.

PART 2 PRODUCTS

ALL SIZES 0.5

- 2.1 CONTROL COMPONENTS
 - FURNISH MATERIALS AND EQUIPMENT OF STANDARD COMPONENTS. MANUFACTURED FOR USE IN CONTROL SYSTEMS AND NOT CUSTOM DESIGNED ESPECIALLY FOR THIS PROJECT. FURNISH COMPONENTS TESTED AND PROVEN IN ACTUAL USE.
 - FURNISH PRODUCTS TO ACCOMPLISH SEQUENCES OF OPERATION DESCRIBED IN PART 3.
 - CONTROL WIRING: WIRING IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 26. MINIMUM WIRE SIZE TO BE 14 GAUGE.

 - SOLID STATE PROGRAMMABLE TIME CONTROL, 24 HOUR BATTERY CARRY OVER, INDIVIDUAL ON/OFF/AUTO SWITCHES FOR EACH PROGRAM, 7 DAY PROGRAMMING.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - AFTER COMPLETION OF INSTALLATION, TEST AND ADJUST CONTROL EQUIPMENT.
 - PROVIDE GUARDS ON THERMOSTATS IN ENTRANCES AND OTHER PUBLIC AREAS.
 - PROVIDE CONDUIT AND ELECTRICAL WIRING IN ACCORDANCE WITH APPROPRIATE REQUIREMENTS OF DIVISION 26.
- 3.2 SEQUENCES OF OPERATION
 - EXHAUST FANS: (EF-1, 2)
 - EXHAUST FAN SHALL OPERATE BASED ON TIME CLOCK. EXHAUST FAN SHALL BE INTERLOCKED WITH DAMPERS AT LOUVER.

SECTION 23 30 00 – HVAC AIR DISTRIBUTION

PART 1 GENERAL

1.1 SUBMITTALS

- A. PRODUCT DATA: NOT REQUIRED.
- B. SHOP DRAWINGS: NOT REQUIRED.

PART 2 PRODUCTS

- 2.1 DUCTWORK

 - MATERIALS STEEL DUCTS: GALVANIZED STEEL SHEET, LOCK-FORMING
 - ALUMINUM DUCTS: ASTM B209; ALUMINUM SHEET, ALLOY 3003-H14. ALUMINUM CONNECTORS AND BAR STOCK: ALLOY 6061-
 - T6 OR OF EQUIVALENT STRENGTH. FLEXIBLE DUCTS: FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS.
- - METAL DUCTWORK FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND
 - FLEXIBLE. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE OR PROVIDE TURNING

INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 30

DEGREES DIVERGENCE AND 45 DEGREES CONVERGENCE.

- 2.2 DUCT ACCESSORIES
 - VOLUME CONTROL DAMPERS
 - FABRICATION: SMACNA HVAC DUCT CONSTRUCTION
 - STANDARDS METAL AND FLEXIBLE. SINGLE BLADE DAMPERS: FABRICATE FOR DUCT SIZES TO 12
 - X 30 INCH. QUADRANTS: PROVIDE LOCKING, INDICATING REGULATORS ON DAMPERS.
 - B. DUCT ACCESS DOORS FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

ACCESS DOORS WITH SHEET METAL SCREW FASTENERS ARE NOT ACCEPTABLE.

2.3 GRILLES, REGISTERS, AND DIFFUSERS

- MANUFACTURER: TITUS OR SIMILAR BY ANEMOSTAT, KRUEGER, E. H. PRICE COMPANY OR NAILOR-HART.
- GENERAL: GRILLE, REGISTER, AND DIFFUSER INFORMATION MARK, MODEL NUMBER, TYPE, SIZE, FINISH, AND ACCESSORY ITEMS ARE INDICATED IN SCHEDULE. LOCATIONS, TYPE, CFM, AND DIRECTIONS OF THROW (WHERE APPLICABLE) ARE INDICATED ON DRAWINGS.
- DEFINITIONS: TERMS USED FOR GRILLES, REGISTERS, AND DIFFUSERS ARE AS FOLLOWS:
 - GRILLES: SAME STYLE AS REGISTERS BUT WITHOUT

REGISTERS: ITEMS LABELED AS REGISTERS ARE TO BE

FACTORY APPLIED OFF-WHITE FINISH UNLESS NOTED OTHERWISE.

FURNISHED WITH OPPOSED BLADE DAMPERS. D. FINISH: FURNISH GRILLES, REGISTERS AND DIFFUSERS WITH

2.4 CENTRIFUGAL IN-LINE CABINET FANS

- CENTRIFUGAL FAN UNIT: [V-BELT] [DIRECT DRIVE] WITH GALVANIZED STEEL HOUSING [LINED WITH 1/2 INCH ACOUSTIC INSULATION], [TOTALLY ENCLOSED FAN COOLED] [OPEN DRIP PROOF] TYPE MOTOR WITH LUBRICATED SEALED BEARINGS, MOTOR MOUNTED ON RUBBER-IN-SHEAR ISOLATORS, OUTLET DUCT COLLAR, GRAVITY BACKDRAFT DAMPER IN DISCHARGE.
- DISCONNECT SWITCH.
- MANUFACTURER: LOREN COOK OR SIMILAR BY GREENHECK, ACME, OR TWIN CITY FAN.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. INSTALL BACKDRAFT DAMPERS ON DISCHARGE OF EXHAUST FANS.
 - CONNECT DIFFUSERS OR TROFFER BOOTS TO LOW PRESSURE DUCTS WITH 5 FEET MAXIMUM LENGTH OF FLEXIBLE DUCT.

INSTALL DUCT ACCESS DOORS FOR INSPECTION AND CLEANING

BEFORE AND AFTER FILTERS, COILS, FANS, AUTOMATIC DAMPERS,

- INSTALL FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT.
- AND AT FIRE DAMPERS. CHECK LOCATION OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING
- PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, AND GRILLES AND REGISTERS.
- PAINT DUCTWORK VISIBLE BEHIND AIR OUTLETS AND INLETS MATTE BLACK.
- H. INSTALLATION OF VARIABLE AIR VOLUME TERMINALS
- MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUPPORT VAV TERMINALS INDEPENDENTLY FROM BUILDING STRUCTURE. DO NOT SUPPORT FROM
- ADJACENT DUCTWORK, PIPING OR CONDUITS. SUPPORT TERMINAL DEVICES CONNECTED BY FLEXIBLE DUCT INDEPENDENTLY OF THE FLEXIBLE DUCT

SIZE TO INLET OR OUTLET OF VAV TERMINAL.

INSTALL VAV TERMINALS IN ACCORDANCE WITH

INSTALL TRANSITION PIECE TO MATCH FLEXIBLE DUCT

SECTION 23 80 00 - DECENTRALIZED HVAC EQUIPMENT

ARRANGEMENT.

PART 1 GENERAL

1.1 SUBMITTALS

- A. PRODUCT DATA: REQUIRED.
- B. SHOP DRAWINGS: REQUIRED.

PART 2 PRODUCTS 2.1 ELECTRIC UNIT HEATERS

- A. ASSEMBLY: UL LABELED WITH TERMINAL BOX AND COVER FACTORY MOUNTED DISCONNECT SWITCH, AND [BUILT-IN] CONTROLS.
- HEATING ELEMENTS: [ENCLOSED COPPER TUBE, ALUMINUM FINNED ELEMENT OF COILED NICKEL-CHROME RESISTANCE WIRE CENTERED IN TUBES AND EMBEDDED IN REFRACTORY MATERIAL.] [EXPOSED HELICAL COIL OF NICKEL-CHROME RESISTANCE WIRE WITH REFRACTORY CERAMIC SUPPORT BUSHINGS.]
- CABINET: ENAMELED STEEL WITH REMOVED FRONT PANEL WITH INTEGRAL AIR OUTLET AND INLET GRILLES.
- FAN: DIRECT DRIVE PROPELLER TYPE, WITH FAN GUARD.
- MOTOR: PERMANENT SPLIT CAPACITOR WITH PERMANENTLY LUBRICATED BEARINGS.
- CONTROL: SEPARATE FAN SPEED SWITCH AND THERMOSTAT HEAT SELECTOR SWITCH, THERMAL OVERLOAD.

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As indicated CONTRACT NO:

DAVID MILENIUS

	SITE LUMINAIRE SCHEDULE											
TYPE	LUMIN	IAIRE	LAMP TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	REMARKS				
	WATTS	VOLTS										
SA	52	120	LED 4,000K	COMPACT LED FLOOD FIXTURE WITH 3X3 DISTRIBUTION AND	GROUND	HUBBELL,OR EQUALS	FML-20L-52-4K-7-N-U-K-	2, 3				
			4,552 LUMENS	DARK BRONZE FINISH.		BY LITHONIA, COOPER,	DBT					
						PHILIPS						
SL1	72	240	LED 4,000K	(1) ONE POLE MOUNTED LED SITE LIGHTS WITH TYPE 4	5" SQUARE STEEL POLE	BEACON, OR EQUALS	VP-1-160L-75-4K7-4F	1, 3, 4				
			10,000 LUMENS	FORWARD OPTIC DISTRIBUTION, 22' TALL STRAIGHT 5"	WITH 36" TALL BASE	BY LITHONIA, COOPER,						
				SQUARE STEEL POLE, ANCHOR BOLT COVER, BRONZE FINISH.		PHILIPS						
				25' TOTAL HEIGHT. SEE ELECTRICAL SITE PLAN FOR								
				ORIENTATION OF POLE FIXTURE HEADS.								

PHOTOMETRIC STATISTICS					
DESCRIPTION	AVG	MAX	MIN	MAX / MIN	AVG / MIN
EAST PROPERTY LINE	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
PARKING LOT	1.3 fc	2.8 fc	0.6 fc	4.7 : 1	2.2 : 1

PHOTOMETRIC ELECTRICAL SYMBC SITE LIGHT FIXTURE - POLE MOLINTED REFER TO PLANS

SITE LIGHT FIXTURE - POLE MOUNTED. REFER TO PLANS FOR MOUNTING TYPES

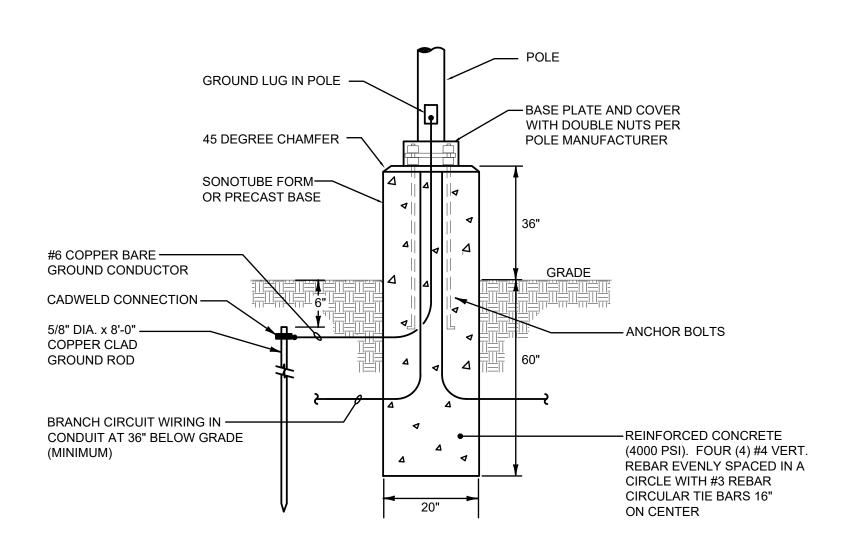
+0.5 SITE LIGHTING PHOTOMETRIC CALCULATION POINT WITH ILLUMINATION LEVEL OF 0.5 FOOTCANDLES, OR AS INDICATED ON PHOTOMETRIC PLAN.

fc 'FOOTCANDLE' - A UNIT OF ILLUMINANCE OR LIGHT INTENSITY.
ONE LUMEN PER SQUARE FOOT, OR 10.76 lux

lux S.I. UNIT OF ILLUMINANCE. ONE LUX IS EQUAL

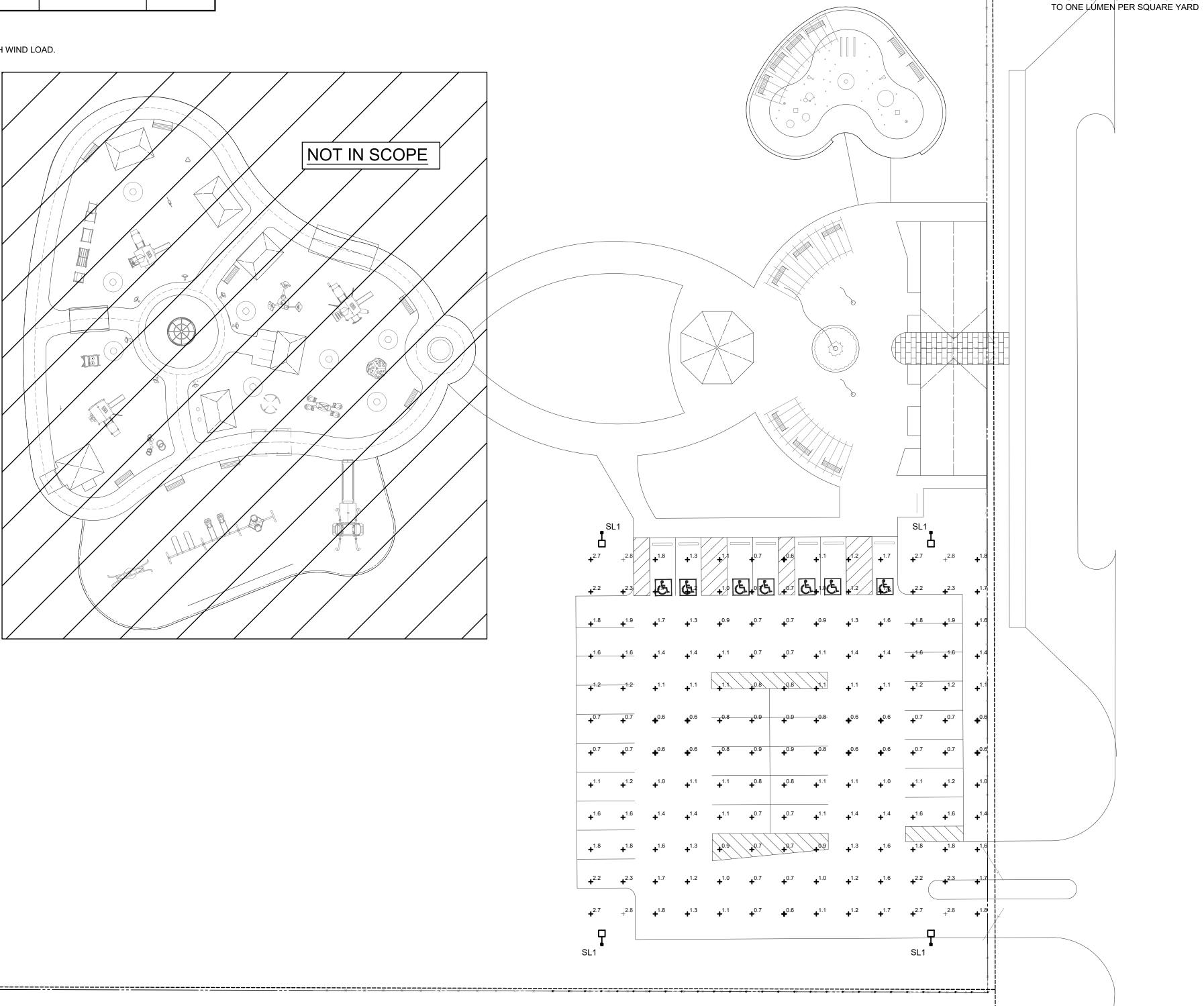
SITE LUMINAIRE SCHEDULE REMARKS

- 1. POLE THICKNESS AND WIND LOAD RATING TO BE SELECTED BY LUMINAIRE MANUFACTURER, RATED FOR A MINIMUM OF 100 MPH WIND LOAD.
- 2. ADJUST LUMINAIRE AIM ANGLE IN-FIELD AT NIGHT WITH OWNER'S REPRESENTATIVE.
- 3. FIXTURE TO BE CONTROLLED VIA TIME CLOCK.
- 4. REFER TO LIGHTING POLE BASE DETAIL.



LIGHTING POLE BASE DETAIL NO SCALE

NOTE: POSITION EDGE OF BASE AT 30" MINIMUM FROM THE EDGE OF PAVEMENT OR CURB.



SITE PHOTOMETRICS PLAN
SCALE: 1" = 20'-0"

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SITE PHOTOMETRICS PLANS

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